N91192.AR.000835
NIROP FRIDLEY
5090.3a

REMEDIAL INVESTIGATION OPERABLE UNIT 3 (OU3) VOLUME II OF IV APPENDIX A

NIROP FRIDLEY MN

9/1/2001

TETRA TECH

6966-7.19.3-c

0006

Remedial Investigation
for
Operable Unit 3

Naval Industrial Reserve Ordnance Plant
Fridley, Minnesota

VOLUME II OF IV
APPENDIX A

Southern Division
Naval Facilities Engineering Command
Contract Number N62467-94-D-0888
Contract Task Order 0003

September 2001

TETRA TECH NUS, INC.
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(412) 921-7090 ▪ FAX (412) 921-4040 ▪ www.tetratech.com

PITT-09-1-046

September 24, 2001

Project Number 6966

Commander, Southern Division
Naval Facilities Engineering Command
Attn: Joel R. Sanders, Code ES327
2155 Eagle Drive
North Charleston, South Carolina 29406

Reference: CLEAN CONTRACT No. N62467-94-D-0888
Contract Task Order No. 0003

Subject: Remedial Investigation Report (OU3) – Volume 1
NIROP Fridley, Fridley Minnesota

Dear Joel:

As indicated in our recent September 19 letter provided with the distribution of the OU2 Risk Assessment (Supplemental Remedial Investigation Information Report), we would soon be following up with the enclosed Volume I for the OU3 Remedial Investigation Report (revised).

Revisions made to this document since the previous May, 2000 volume are relatively minor and do not impact the conclusions of the OU3 risk assessment. However, rather than provide change pages, we have provided an entire replacement volume for ease of use by those crafting the Environmental Restrictive Covenant. It is possible that further MPCA and EPA comments could necessitate further minor revision to be addressed by change pages to be inserted into this document.

Please note that at the rear of Volume I are replacement pages for Appendix F. Appendix F was originally provided in Volume III in August, 1999. Please remove the Appendix F material from Volume I and place it into previously-provided Volume III, removing the corresponding pages from August, 1999 Volume III. No other revisions or modification to Volumes II, III, or IV are required.

We have been notified that a minor error existed on Figure 2-1 distributed Friday in the OU-2 Risk Assessment Report. Please find a replacement Figure 2-1 for that report. Discard the Figure 2-1 originally received with the report and insert this replacement figure.

Sincerely,

Mark Sladic P.E.
Task Order Manager

MS/kf

Enclosure

cc: Dave Douglas, MPCA (2 copies)
John Aubert, NAVSEA (1 copy)

Tom Bloom, USEPA (1 copy)
Richard Harris, RAB Co-Chair (1 copy)
Doug Hildre UDLP (1 copy)
Bob Jupin, TtNUS (1 copy)
Mark Perry/File 6966 TtNUS (Unbound copy)
Debra Wroblewski TtNUS (Cover Letter Only)

APPENDIX A

A.1 SAMPLE LOG SHEETS FOR SOILS

A.2 SAMPLE LOG SHEETS FOR GROUNDWATER

A.3 SAMPLE LOG SHEETS FOR QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

A.4 SAMPLE LOG SHEETS FOR IDW (FRAC TANK STORAGE)

A.5 CHAIN OF CUSTODY RECORDS

A.6 FIELD TASK MODIFICATION REQUESTS

APPENDIX A.1

SAMPLE LOG SHEETS FOR SOILS - PHASE I

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-01 & BR
Sample Location: AOC-6
Sampled By: TR / JL
C.O.C. No.: LTC-0[illegible] & BR-01 (TR)

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1850	0-2'	Dark Brown	fine to medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC } BR
NAPL - UV Light Test	4 oz. Jar	✓	Field Test } BR
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

Tony Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-02
Sample Location: AOC-6
Sampled By: TR/JL
C.O.C. No.: ETL-0021 & BR-001

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1900	4-6'	light brown	medium to course grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Tay Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-03 + BR
Sample Location: AOC-6
Sampled By: TR/JL
C.O.C. No.: 72-001 & BR-001

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1910	9-10'	Dark Brown to light Brown	Fine, Medium and course grained sand
Method: DPT			
Monitor Reading (ppm): 0.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 + BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Troy Rozal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-04-BR
Sample Location: AOC-6
Sampled By: TR/JL
C.O.C. No.: BR-001

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1920	12-14'	Light brown to dark brown	fine to medium grained sand with gravel inclusions
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Terry Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-05-BR
Sample Location: AOC-6
Sampled By: TR / JL
C.O.C. No.: BR-001

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1930	18-20'	Light and Dark brown	fine to medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Terry Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-06-BR
Sample Location: AOC-6
Sampled By: TR/JL
C.O.C. No.: BR-001

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-08-97 Time: 1945 Method: DPT Monitor Reading (ppm): 1.7	21-23'	Light and Dark Brown	fine to medium grained sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Terry Rogal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-AOC-07-BR
Sample Location: AOC-6
Sampled By: TR/JL
C.O.C. No.: BR-001

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2000	25-27	Dark Brown	Fine and medium grained sand grading into a poorly sorted medium and course grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-08-BR
Sample Location: AOC-6
Sampled By: JW / JL
C.O.C. No.: BR-002

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07/09/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2025	28-30'	Dark Brown to Dark Gray	fine medium and course grained poorly sorted sand (mature)
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-09-BR
Sample Location: AOC-6
Sampled By: JV/JL
C.O.C. No.: BR-002

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2145	32 36	Dark brown to Grey	fine grained sand
Method: DPT	2" recovery		
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar Not Enough sample	✓ JV	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or ~~-~~ NA
TR

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Dahlstrom

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-10-BR
Sample Location: ADC-6
Sampled By: JJ/JL
C.O.C. No.: BR-002

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2225	36-40'	Dark Brown to Grey	fine, medium & course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.00			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Dilustro

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-11-01
Sample Location: AOC-6
Sampled By: JU/JL
C.O.C. No.: BR-002

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 13.10	40-44'	Dark brown to Grey	fine, medium, & course grained poorly sorted sand with mature gravels
Method: DPT			
Monitor Reading (ppm): 0.00			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-12-AR
Sample Location: AOC-6
Sampled By: JW / JL
C.O.C. No.: BR-002

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2339	44-48'	Dark brown to grey	fine medium & coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.00			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.: 003-SD-DP1-01-AR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-13-BR
Sample Location: AOC-6
Sampled By: JW/JL
C.O.C. No.: BR-002

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0015	48'-52'	Dark brown to gray	Silt, medium and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.00			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-006-14-01
Sample Location: AOC-6
Sampled By: JW/JL
C.O.C. No.: BR-002

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0110	~~Dark Brown~~ to grey (JW) 52'-56'	Dark Brown to grey	f, m, c poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Piston lost Down Hole

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Dalton

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P07-01 EBR
Sample Location: 14 of 4W
Sampled By: JW/JL
C.O.C. No.: LTL-003 BR-003

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1800	0-2	Dark brown	Sand with blackish clay
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P07-02 & B
Sample Location: 14 at 4W
Sampled By: JW/JL
C.O.C. No.: LTZ-003, BR-003

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-10-97 Time: 1810 Method: DPT Monitor Reading (ppm): 0.0	4'-8'	Light Brown	fine grained sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P07-03 E BR
Sample Location: 14 of 4W
Sampled By: JW/JL
C.O.C. No.: LTL-003, BR-003

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1825	10-12	Light Brown	fine medium and coarse grained poorly sorted sand with gravels
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-07-04-BR
Sample Location: 14th Ave
Sampled By: JW/JL
C.O.C. No.: BR-003

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1840	12'-16'	Dark Brown	fine medium and Coarse grained sand with large gravels
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P07-05-BR
Sample Location: 14 at 4W
Sampled By: JW/JL
C.O.C. No.: BR-003

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1915	17 to 19'	Dark Brown	fine medium and coarse grained poorly sorted sand with 50% gravels
Method: DPT			
Monitor Reading (ppm): 1.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P07-06-GR
Sample Location: 14 ft 4W
Sampled By: JW/JL
C.O.C. No.: BR-003

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1925	20-24	Dark brown	f, m, c grnd sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P07-07-BR
Sample Location: 14 at 4W
Sampled By: JW/JL
C.O.C. No.: BR-003

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2145	24-28	Dark Brown	fine medium and coarse grained poorly sorted sand w/gravels
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-02-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P07-08-BR
Sample Location: 14 at 4W-P07
Sampled By: JW/JL
C.O.C. No.: BR-004

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-11-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1940	28-32	Dark Brown	Course grained sand at top of sample grading into a fine to medium grained sand
Method: DPT			
Monitor Reading (ppm): 1.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- P07-09-SR
Sample Location: P07
Sampled By: TR
C.O.C. No.: --

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-11-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2110	NO RECOVERY		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

SAMPLE WASHED OUT

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Tony Rozak

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P07-10-BR
Sample Location: 14 ft 4W
Sampled By: SW/JL
C.O.C. No.: BR-004

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-11/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~2330~~ 2230	36'-40'	Dk Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 2.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:
003-SD-DP1-03-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P07-11-BR
Sample Location: 14 of 44
Sampled By: JW/JL
C.O.C. No.: BR-004

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07/11/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2350	40 to 44	Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 1.3 ppm			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P07-V2-08
Sample Location: 14 of 40
Sampled By: JV/SG
C.O.C. No.: BR-004

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-11/97 Time: 2345 Method: DPT Monitor Reading (ppm): 1.5	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	~~40~~ 44-48	Dark Brown	Very fine grained sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-07-12-BR
Sample Location: 14 of 4W
Sampled By: JW/JL
C.O.C. No.: ~~BR-004~~ (TR)

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-12/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0040	No Recovery ←		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

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MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P07-14-BR
Sample Location: 14 at 4W
Sampled By: JW/JL
C.O.C. No.: BR-004

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0115	52'-56'	Dark Brown to Olive	fine grained sandy silt with a clayey texture. High Plasicity
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVCCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P03-01 & BR
Sample Location: 23 at 29.5W
Sampled By: TR [illegible]/JL
C.O.C. No.: LTL-004 & BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-12-97 Time: 1650 Method: DPT Monitor Reading (ppm): 2.5	0' to 3'	Dark Brown to Black	find grained sandy silt

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC } BR
NAPL - UV Light Test	4 oz. Jar	✓	Field Test } BR
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P03-02 & BR
Sample Location: 23 at 29.5w
Sampled By: TR JG/JL
C.O.C. No.: LTL-004 & BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-12-97 Time: 1700 Method: DPT Monitor Reading (ppm): 1.5	4' to 8'	Dark Brown grading into a light Brown	Sandy silt to a fine grained well sorted sand with some gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): John G Walter

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P03-03 & BR
Sample Location: 23 ft 29.5 W
Sampled By: TR/JL
C.O.C. No.: LTL-004 & BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1715	10 to 12	Light Brown to Dark Brown	f, m, c grained poorly sorted Sand
Method: DPT			
Monitor Reading (ppm): 1.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P03-04-BR
Sample Location: 23 at 29.5W
Sampled By: TR/JL
C.O.C. No.: BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-12-97 Time: 1750 Method: DPT Monitor Reading (ppm): 0.0	12 to 14	Dark Brown to Black	fine grained sandy silt

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): John G Dobbs

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-05-BR
Sample Location: 23 at 29.5W
Sampled By: JW/JL
C.O.C. No.: BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-12-97 Time: 1820 Method: DPT Monitor Reading (ppm): 0.4	17 to 19	Dark Brown to Light Brown	fine and medium grained sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

NO TR

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: ~~003-SB-DP1-04-BR-TR~~

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-06-BR
Sample Location: 23 ft 29.5 W
Sampled By: JW/JL
C.O.C. No.: BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1826	Ft 21 to 23'	Light Brown	fine; medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-04-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-103-07-BR
Sample Location: 23 at 29.5W
Sampled By: JW/JL
C.O.C. No.: BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1945	24 to 29	Dark Brown	fine to medium grained sand
Method: DPT			
Monitor Reading (ppm): 1.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-03-08-BR
Sample Location: 23 & 29.5W
Sampled By: JG/JL
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2240	NO Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓ (3)	Field GC
NAPL - UV Light Test	4 oz. Jar	✓ (3)	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Only 3" of sample was recovered this meant that this was the top 28' which had allready been disturbed.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John A Valentine

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P03-09-BR
Sample Location: 23 & 29.5W
Sampled By: JW/JL
C.O.C. No.: BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2310	32 & 36	Dark Brown to Olive	fine, medium and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003.10-BG
Sample Location: 23 at 29.5W
Sampled By: JW/JL
C.O.C. No.: BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07.12.97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2335	38 to 40	Dark Brown	fine, medium and coarse grained poorly sorted moisture sand
Method: DPT			
Monitor Reading (ppm): 0.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD	Duplicate ID No.:
See note.	

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P03-11-BR
Sample Location: 23 at 29.5W
Sampled By: JW/JL
C.O.C. No.: BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0020	~~Dark Brown~~ 40 to 44	Dark Brown	medium and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John A Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P03-12-BR
Sample Location: 23 at 29.5W
Sampled By: JW/JL
C.O.C. No.: BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07 13 97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0040	44' to 48'	Dark brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P03-13-BR
Sample Location: 23 at 29.5
Sampled By: JW/JL
C.O.C. No.: BR-006

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1610	48' to 52'	Dark Brown to Olive	fine grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster III

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P03-14-BR
Sample Location: 23 at 29.5
Sampled By: JW/JL
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: —	No Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓ (TK)	Field GC
NAPL - UV Light Test	4 oz. Jar	✓ (TK)	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-) NA

fine grained sand washed out of the bottom of the acetate liner

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Royal FOR JW

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-15-BR
Sample Location: 23 & 29.5
Sampled By: SW/JL
C.O.C. No.: BR-006

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1740	56 to 60'	Dark Brown	Fine medium and course poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Dilustro

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-01&BR
Sample Location: AOC-3
Sampled By: TM/JL
C.O.C. No.: LTL-004 & BR006

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2025	1' to 3'	Dark Brown	Fine grained sandy silt
Method: DP			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G White

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-02 i DR
Sample Location: AOC-3
Sampled By: TR/JL
C.O.C. No.: LTL-004; BR-006

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2035	5' to 7'	Light Brown	fine grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-03!BR
Sample Location: AOC-3
Sampled By: TR/JL
C.O.C. No.: LTL-004; BR-006

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2125	9' to 11'	Dark Brown	Fine grained sand with some gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} 3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-04-BR
Sample Location: AOC-3
Sampled By: TR/JLD
C.O.C. No.: BR-006

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2140	12' to 16'	Dark Brown	fine medium and course grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-05-BR
Sample Location: AOC-3
Sampled By: TR/JL
C.O.C. No.: BR-006

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2150	18' to 20'	Dark Brown to Light Brown	f, m, c grained sand, some gravel and cobbles
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G White

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-06 BR
Sample Location: AOC-3
Sampled By: TR/JL
C.O.C. No.: BR-006

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2200	22'to24'	Dark Brown to Olive	f, m, c grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Dekstra

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-07-BR
Sample Location: ACC-3
Sampled By: NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2210	→ NO RECOVERY		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

PISTON JAMMED

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-08-BR
Sample Location: AOC-3
Sampled By: TR/JL
C.O.C. No.: BR-006

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2235	28 to 32	Dark brown to olive	fine medium and course grained sand with gravel and cobbles
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:
	003-SB-DP1-05-BR

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-09-BR
Sample Location: AOC-3
Sampled By: TW/JL
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: —	No	Recovery	
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Disturbed by pushing well to 35 feet

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-10-0R
Sample Location: J2 40C-3
Sampled By: JW/JL
C.O.C. No.: BR-007

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1640	38 to 40	Very Dark Brown	fatty clay with some sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-013-01 & BR
Sample Location: AOC-13/14
Sampled By: JR/JL
C.O.C. No.: LTL-005 & BR-007

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07/14/97 Time: ~~1745~~ 1745 Method: DPT Monitor Reading (ppm): 0.0	0 to 3	Light Brown to tan	fine grained sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC } BR
NAPL - UV Light Test	4 oz. Jar	✓	Field Test } BR
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals	✓	Laucks
Eh*	Collected in jar with metals	✓	Laucks
Ferrous Iron*	Collected in jar with metals	✓	Laucks
Sulfides*	Collected in jar with metals	✓	Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

ALL LAUCKS + spot test FOR Cr+6

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-013-02 (BR)
Sample Location: AOC-13/14
Sampled By: TR/JL
C.O.C. No.: LTL-005 & BR-007

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~1550~~ 1755	4' to 8'	Light Brown to Tan	Fine grained sand with some lignite
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓ ✓	Laucks
pH*	Collected in jar with metals	✓ (FR)	Laucks
Eh*	Collected in jar with metals	✓ NO spot test	Laucks
Ferrous Iron*	Collected in jar with metals	✓	Laucks
Sulfides*	Collected in jar with metals	✓	Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-013-031BR
Sample Location: AOC-13/N
Sampled By: TR/JL
C.O.C. No.: LTL-0055BR-007

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~1804~~ 1805	10 to 12	Light Brown to Tan	Fine grained sand with gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals	✓ (TC)	Laucks
Eh*	Collected in jar with metals	✓	Laucks
Ferrous Iron*	Collected in jar with metals	✓ No Spot Test	Laucks
Sulfides*	Collected in jar with metals	✓	Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-013-04-BR
Sample Location: AOC-13/14
Sampled By: TR/JL
C.O.C. No.: BR-007

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1820	12 to 16	Light Brown to Tan	fine grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-013-05-BR
Sample Location: AOC-13/14
Sampled By: TR/JL
C.O.C. No.: BR-007

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1840	16 to 20'	Light Brown	Fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-013-06-BR
Sample Location: AOC-13/14
Sampled By: TA/JL
C.O.C. No.: BR-007

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1935	~~Dark brown~~ 20' to 24'	Dark Brown	fine, medium and course grained Sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

Tony Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-013-07-BR
Sample Location: AOC-13/14
Sampled By: JW/TR
C.O.C. No.: BR-007

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2220	24 to 28	Dark Brown	fine medium and course grained Sand
Method: DPT			
Monitor Reading (ppm): 1.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-013-08-0R
Sample Location: AOC-13/14
Sampled By: JW/TR
C.O.C. No.: 132-007

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2250	28 to 32	Dark brown to Olive	fine, medium, and course grained sand
Method: DPT			
Monitor Reading (ppm): 1.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster, II

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-09-00
Sample Location: AOC. 13/14
Sampled By: TR/JL
C.O.C. No.: BE-007

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2310	32' to 36'	Dark brown	fine, medium, and course grained sand
Method: DPT			
Monitor Reading (ppm): 3.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 013-10-BR
Sample Location: HOC. 13/14
Sampled By: JW/JL
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-15-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1640	NO Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓ (TR)	Field GC
NAPL - UV Light Test	4 oz. Jar	✓ (TR)	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Discovered a gravel lens and material washed out of the liner.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-013-11-DR
Sample Location: AOC-13/14
Sampled By: JW/JL
C.O.C. No.: BR-008

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-15/97 Time: 1735 Method: DPT Monitor Reading (ppm): 6.2	40 to 44	Dark Brown	fine, medium, and coarse grained sand.

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or ⊙

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.: 003-SB-DP1-06-BR

Signature(s): John G. Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-008-01 & BR
Sample Location: AOC-8/9
Sampled By: TR/JL
C.O.C. No.: LTL-007 & BR-010

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-21-97 Time: 1635 Method: DPT Monitor Reading (ppm): 0.0	0' to 4' feet	Light Brown to Tan	fine grained sand with some gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-02 & BR
Sample Location: AOC-8/9
Sampled By: TR/JL
C.O.C. No.: LTL-007 & BR-010

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1655	4' to 8'	Light Brown	fine grained sand w/ trace organic pockets
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-03 & BR
Sample Location: AOC-8/9
Sampled By: TR/JL
C.O.C. No.: LTL-057 & BR-010

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	10 to 12	Light Brown	fine grained sand w/ some gravel at top
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-009-04-MR
Sample Location: AOC - 8/9
Sampled By: JW/JL
C.O.C. No.: BR-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1715	12 to 16	Light Brown	Fine grained sand w/some gravel
Method: DPT			
Monitor Reading (ppm): 4.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-009-05-BR
Sample Location: AOC-8/9
Sampled By: JW/JL
C.O.C. No.: BR-010

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1730	16' to 20'	Dark Brown	fine grained sand; moist
Method: DPT			
Monitor Reading (ppm): 4.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD (See note.)

Duplicate ID No.:

Signature(s):

J. G. Robertson III

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-009-06-BR
Sample Location: ADC-08/09
Sampled By: JW/JL
C.O.C. No.: BR-010

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1750	20-24'	Dark Brown	fine & Medium grained sand wet
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-008-07-BR
Sample Location: AOC-8/9
Sampled By: JJ/JL
C.O.C. No.: BR-010

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1825	24 to 28	Dark Brown	fine & medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-001-07-BR

Signature(s): John G Wahtola

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-008-08-BR
Sample Location: AOC-B9
Sampled By: JW/JL
C.O.C. No.: BR-010

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-21-97 Time: 1840 Method: DPT Monitor Reading (ppm): 0.0	28' to 32'	Dark Brown	fine, medium and course grained sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s): John G Webster II

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-009-09-BR
Sample Location: AOC-8/9
Sampled By: SW/SL
C.O.C. No.: BR-010

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2200	32'-36'	Dark Brown	fine grained sand w/some very fine grained sand sections
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-003-10-PR
Sample Location: AOC-8/9
Sampled By: JW/SL
C.O.C. No.: BA-010

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2235	36' to 40'	Dark Brown	fine grained to very fine grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-009-11-BR
Sample Location: AOC - 8/9
Sampled By: JW/JL
C.O.C. No.: BR-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 02-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2305	40' to 44'	Dark Brown	fine grained to very fine grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-009-12-BR
Sample Location: AOC 8/9
Sampled By: SW/JL
C.O.C. No.: BL-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1615	44' to 48'	Dark Brown	very fine grained sand w/some silty layers
Method: DPT			
Monitor Reading (ppm): 0.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD (See note.)

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-009-13-BR
Sample Location: AOC - 8/9
Sampled By: JW/JV
C.O.C. No.: BR-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1710	49 to 52	Dark Brown	fine grained sand silt sanding into a fine to medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-008-14-BR
Sample Location: AOC-8/9
Sampled By: JW/JL
C.O.C. No.: BR-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-22-97 Time: 1750 Method: DPT Monitor Reading (ppm): 0.0	52'to 56'	Dark Brown	fine grained sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s): John G Debatte

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-009-15-BR
Sample Location: AOC-8/9
Sampled By: JW/SL
C.O.C. No.: BR-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1830	56' to 60'	Dark Brown	Silty clay with High plasicity
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John G White

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-004-01 ion
Sample Location: AOC-4
Sampled By: TR/JL
C.O.C. No.: LTL-005 & BR-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2015	0'to 4'	Light Brown to Dark Brown	fine and medium grained sand with some gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals	✓	Laucks
Eh*	Collected in jar with metals	✓	Laucks
Ferrous Iron*	Collected in jar with metals	✓	Laucks
Sulfides*	Collected in jar with metals	✓	Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

LAUCKS
Metals ~~only~~ (TR) MS/MSD
TOC, CN^-, Cr^{+6} + SPOT TEST FOR Cr^{+6}

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note

Duplicate ID No.: LAUCKS 2 DUP
~~003-SB-DP1-01~~ (TL) STET

Signature(s):

John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-004-02 BR
Sample Location: AOC-4
Sampled By: TR/JL
C.O.C. No.: 47C-0088 BR-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2025	4ft 8'	Dark Brown	fine and medium grained sand w/some gravel slight organic in places
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals	✓	Laucks
Eh*	Collected in jar with metals	✓ NA	Laucks
Ferrous Iron*	Collected in jar with metals	TR	Laucks
Sulfides*	Collected in jar with metals		Laucks

TR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-004-03:0R
Sample Location: AOC-4
Sampled By: TR/JL
C.O.C. No.: LTC-006 & BR-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: ~~2030~~ 07-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2030	10' to 12'	Light Brown to Tan	fine grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals	✓	Laucks
Eh*	Collected in jar with metals	✓	Laucks
Ferrous Iron*	Collected in jar with metals	✓ (TL)	Laucks
Sulfides*	Collected in jar with metals	✓	Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 004-04-BR
Sample Location: AOC-4
Sampled By: TR/JL
C.O.C. No.: B2011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2045	12' to 16'	Light Brown to tan	fine i medium grained sand w/ gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John L Wilt

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-004-05-BR
Sample Location: AOC-4
Sampled By: TR/JL
C.O.C. No.: Bol - 011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2055 07-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2055	16' to 20'	Light Brown	fine grained sand w/a small silty clay lens at base of sample
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-004-06-BR
Sample Location: AOC-4
Sampled By: TR/JL
C.O.C. No.: BL-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2115	20 to 24	Dark Brown	Fine grained sand grading into a silty clay grading backinto a fine grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John G. White

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-004-07-BR
Sample Location: AOC-4
Sampled By: JW/JL
C.O.C. No.: BR-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2130	24 to 28	Dark Brown	fine grained sand w/some sandy silt layers
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-004-09-01
Sample Location: AOC-4
Sampled By: JW/JL
C.O.C. No.: BR-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2150	28' to 32'	Dark Brown	Sandy silt-clay
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-039-01'OR
Sample Location: AOC-39
Sampled By: JR/JL
C.O.C. No.: LTL-009 & BL-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1640	0 to 4	Dark Black	fine grained sand, silt
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-038-02iBR
Sample Location: AOC-38
Sampled By: TR/JL
C.O.C. No.: LTL-009EBR-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	4' to 8'	Dark Black to Dark Brown	fine grained sandy silt grading into a fine to medium grained sand
Method: DPT			
Monitor Reading (ppm): 1.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Walter

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-039-03'BR
Sample Location: AOC-39
Sampled By: TR/JL
C.O.C. No.: LTL-009 & BR-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	8' to 12'	Dark Brown	fine, medium and course grained sand w/gravel
Method: DPT			
Monitor Reading (ppm): 1.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-038-04-BR
Sample Location: AOC-4 (R) 38
Sampled By: J W/JL
C.O.C. No.: BR-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1725	12 to 16	Dark Brown	fine medium grained sand w/a Heavy course grained moisture sand matrix
Method: DPT			
Monitor Reading (ppm): 3.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John L Wilde

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-038 (FR)-05-BR
Sample Location: AOC-38
Sampled By: JW/JL
C.O.C. No.: BR-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1735	16 to 20	Dark Brown	fine & medium grained sand moist.
Method: DPT			
Monitor Reading (ppm): 11.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Hot 11.8 ppm FID

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G White

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-~~037~~ 038 (CC) -06-BM
Sample Location: AOC-38
Sampled By: —
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-23-97	No	Recovery	
Time: 1800			
Method: DPT			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - NA

Upon pulling macro core-up out of the bore hole the piston and cutting shoe were lost down the hole.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-038 (FR) -07-BR
Sample Location: AOC-38
Sampled By: JV/JC
C.O.C. No.: BR-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1920	24 to 28	Dark Brown	fine, medium, and coarse grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SO-DP1-08-BR

Signature(s):

John Walton

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-038-09-BR (TK)
Sample Location: A02-38
Sampled By: JW/JL
C.O.C. No.: BR-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1830	28 to 32	Dark Brown	Fine, medium, and course grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-038(TK)-09-BR
Sample Location: AOC-38
Sampled By: JW/JN
C.O.C. No.: ~~BR 01~~ (TK) NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: NA	No Recovery		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-) NA

Piston jammed (TK)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-038 (FR) -10-BR
Sample Location: AOC-38
Sampled By: JW/JL
C.O.C. No.: BR-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2145	36' to 40'	Dark Brown	Fine, medium and coarse grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Waldron

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-038-11-BR
Sample Location: AOC-38
Sampled By: JW/JL
C.O.C. No.: BR-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2210	40' to 44'	Dark Brown to Olive	Medium and course grained mature sand w/ some gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John G White

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-039-12-01
Sample Location: BOC-3B
Sampled By: JW/JL
C.O.C. No.: BR-0.2

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2240	44 to 48	Dark Brown to Olive	medium to course grained matrix sand w/some gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-038-13-BR
Sample Location: AOC-38
Sampled By: JW/JW
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07/23/97	No Recovery		
Time: 2310			
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓ JW	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or NA (TA)

Sample was distroyed trying to get the acetate liner out. Collected a UV sample when pounding out liner

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-038-14-BR
Sample Location: AOC-38
Sampled By: JW/JL
C.O.C. No.: BR-012

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2350	52 to 56	Dark Brown	silty clay w/ high plasicity
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073-01 i BR
Sample Location: AOC-073
Sampled By: TR/SL
C.O.C. No.: 472-010 & 32-013

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1605	0 to 4	Dark Brown to Black	fine to medium grained sand grading into a stiff sandy silt
Method: DPT			
Monitor Reading (ppm): 0.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073-02 &BR
Sample Location: AOC-073
Sampled By: TR/JL
C.O.C. No.: CTC-0103 BR-0.3

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1615	4' to 8'	Dark Brown	fine and medium grained silty sand
Method: DPT			
Monitor Reading (ppm): 3.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073-02 & BR
Sample Location: AOC-073
Sampled By: TR/JL
C.O.C. No.: LTL-010 & BK-013

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1625	8 to 12	Dark Brown	fine, medium and coarse grained sand w/gravel
Method: DPT			
Monitor Reading (ppm): 2.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BE

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-083-04-0R
Sample Location: AOC - 73
Sampled By: TR/UL
C.O.C. No.: BR - 013

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1635	12 to 16	Dark Brown	fine medium and course grained sand w/ some gravel
Method: DPT			
Monitor Reading (ppm): 1.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073-05-BR
Sample Location: AOC-73
Sampled By: TR/JL
C.O.C. No.: BR-013

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1640	16 to 20	Dark Brown	fine, medium, and coarse grained sand
Method: DPT			
Monitor Reading (ppm): 2.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.: 003-SB-DP1-09-BR

Signature(s):

John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073-06-MA
Sample Location: AOC-03
Sampled By: TR/JL
C.O.C. No.: BR-013

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1655	20 to 24	Dark Brown to Olive	some fine but more medium to course grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073-07-01
Sample Location: AOC-073
Sampled By: TR/JL
C.O.C. No.: BR-013

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1710	24 to 28	Dark Brown to Olive	fine, medium, and course grained sand
Method: DPT			
Monitor Reading (ppm): 1.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD (See note.)

Duplicate ID No.:

Signature(s):

John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073-08-BR
Sample Location: AOC-073
Sampled By: TR/JL
C.O.C. No.: BR-013

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1730	28 to 32	Dark Brown	Fine, medium, and coarse grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073 (TR) ~~073~~-09-BR
Sample Location: AOC-073
Sampled By: JW/JC
C.O.C. No.: BR-013

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-24-97 Time: 2030 Method: DPT Monitor Reading (ppm): 0.0	32' to 36'	Dark Brown	medium to course grained sand w/gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s): John G Velletta

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073-10-BR
Sample Location: AOC-073
Sampled By: JW/JL
C.O.C. No.: BR-013

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2055	36 to 40	Dark Brown	fine grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073-11-BR
Sample Location: AOC-073
Sampled By: JW/JL
C.O.C. No.: BR-013

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-24-97 Time: 2120 Method: DPT Monitor Reading (ppm): 0.0	40' to 44'	Dark Brown to Olive	medium to coarse grained sand w/pea gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073-12-0R
Sample Location: AOC-73
Sampled By: JW/JL
C.O.C. No.: GR-053

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2150	44 to 48	Dark Brown to Olive	Fine grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John G Washburn

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 073-13-DR
Sample Location: AOC-73
Sampled By: NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2225	No Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - NA

Acetate liner got jammed and would not come out

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-073-14-BR
Sample Location: AOC-073
Sampled By: JW/JL
C.O.C. No.: ~~TOBER~~ BR'-014

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2300	52 to 56	Dark Brown to Olive	fine, medium and course grained mature sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-017-01' DR
Sample Location: AOC-017
Sampled By: SW/SL
C.O.C. No.: LTC-011 & BR 015

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1605	0 to 4	Dark Brown	Fine grained sandy silt, slight wet
Method: DPT			
Monitor Reading (ppm): 4.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John L Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-017-02' BR
Sample Location: AOC-017
Sampled By: SW/SL
C.O.C. No.: LTL-611 & BR'-615

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1620	4' to 8'	Dark Brown to Black	fine and medium grained sand some black silt stain
Method: DPT			
Monitor Reading (ppm): 3.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John A White

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 017-03 & BR
Sample Location: AOC-017
Sampled By: JW/JL
C.O.C. No.: LTC-011 & BR-015

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1645	8 to 12	Dark Brow	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 5.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC } BR
NAPL - UV Light Test	4 oz. Jar	✓	Field Test } BR
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Odor - organics trash smell

MAP:

On separate sheet by FOL

Circle if Applicable:

(MS)/MSD See note.

Duplicate ID No.:

Signature(s): John G Walters

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-017-04-BR
Sample Location: AOC-017
Sampled By: JW/JL
C.O.C. No.: BR-015

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	12 to 16	Dark Brown to Tan	fine and medium grained Sand
Method: DPT			
Monitor Reading (ppm): 1.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-017-05-BR
Sample Location: AOC-017
Sampled By: TW/JL
C.O.C. No.: BR-015

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1715	16 to 20	Dark Brown	fine medium and course grained sand w/ pea gravel
Method: DPT			
Monitor Reading (ppm): 5.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:
003-SB-DP1-10-BR

Signature(s):

John G. White

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-017-06-BR
Sample Location: BOC-97
Sampled By: JW/JL
C.O.C. No.: BR-015

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1735	20 to 24	Dark Brown	fine grained sand
Method: DPT			
Monitor Reading (ppm): 5.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

John G. Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-017-07-BR
Sample Location: AOC-017
Sampled By: JW/JL
C.O.C. No.: BR-015

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1750	24 to 28	Dark Brown	fine and medium grained sand, wet
Method: DPT			
Monitor Reading (ppm): 3.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): John G Whitesell

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-017-08-00
Sample Location: AOC-017
Sampled By: JW/JL
C.O.C. No.: BR-015

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1815	28 to 32	Dark Brown to Olive	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 1.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-017-09-0R
Sample Location: AOC-017
Sampled By: SW/SL
C.O.C. No.: (TA) ~~BR-015~~ NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2025	No Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	~~✓~~ SW	Field GC
NAPL - UV Light Test	4 oz. Jar	~~✓~~ SW	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or ~~-~~ NA (TA)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-017-10-BR
Sample Location: AOC-17
Sampled By: RJ/JL
C.O.C. No.: BR-015

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2110	36 to 40	Dark Brown to Olive	Fine, medium, and course grained sand
Method: DPT			
Monitor Reading (ppm): 1.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

003-SB-017-11-BR
Sample ID No.: ~~003-SB-017-11-BR~~ TA
Sample Location: AOC-017
Sampled By: JW/JL
C.O.C. No.: TA~~BA~~ BR-015

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2140	40 to 44	Dark Brown to Olive	Fine, medium, coarse, and very coarse grained sand w/gravel
Method: DPT			
Monitor Reading (ppm): 5.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-017-12-BR
Sample Location: AOC-17
Sampled By: JW/JL
C.O.C. No.: BR-015

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2215	44 to 48	Dark Brown	fine, medium, and course grained sand grading into a lean fatty clay
Method: DPT			
Monitor Reading (ppm): 0.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-016-01/BR
Sample Location: AOC-016
Sampled By: JR/JL
C.O.C. No.: LTC-011 & BR-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1315	0 to 4'	Dark Brown to Tan	fine grained sand with some black silt and gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-016-02:BR
Sample Location: AOC-016
Sampled By: TR/JL
C.O.C. No.: LTC-011 & BR-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1330	4' to 8'	Tan	very fine grained silt sand
Method: DPT			
Monitor Reading (ppm): 0.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster III

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-016-03(BR
Sample Location: AOC-016
Sampled By: TR/JL
C.O.C. No.: LTL-011 & BR-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1350	8' to 12'	Tan	fine and medium grained sand w gravel
Method: DPT			
Monitor Reading (ppm): 0.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-016-04-BR
Sample Location: AOC-016
Sampled By: TR/JL
C.O.C. No.: BR-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1405	12' to 16'	Dark Brown to Tan	fine and medium grained Sand w/ some Gravel
Method: DPT			
Monitor Reading (ppm): 3.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-016-05-BR
Sample Location: AOC-016
Sampled By: JW/JL
C.O.C. No.: BR-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1420	16 to 20	Tan	fine, medium, coarse grained sand
Method: DPT			
Monitor Reading (ppm): 2.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-016-06-BR
Sample Location: AOC-016
Sampled By: JU/JL
C.O.C. No.: BR-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1430	20 to 24	Dark Brown to Olive	fine, medium, course, very course grained mature sand w/ peb and large gravel
Method: DPT			
Monitor Reading (ppm): 1.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Welsh

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-016-07-BR
Sample Location: AOC-016
Sampled By: JW/JL
C.O.C. No.: BR-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1445	24' to 28'	Dark Brown	fine and medium grained sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Wolston

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-016-08-BR
Sample Location: AOC-016
Sampled By: JW/JL
C.O.C. No.: BR-016
DUP on BR-017

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-26-97 Time: 1515 Method: DPT Monitor Reading (ppm): 0.0	28 to 32	Dark Brown	medium to course to very course grained mature sand grading into a fine grained sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-~~016~~ DP1-11-BR

Signature(s): [signature]

TR

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-016-09-01
Sample Location: AOC-016
Sampled By: JW/JL
C.O.C. No.: BR-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1720	32 to 36	Dark Brown	fine, medium, coarse, very coarse grained sand w/gravel clay in the end of the cutting shoe
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavient chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

John G. Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-016-09-10-BA
Sample Location: AOC-016
Sampled By: JW/JL
C.O.C. No.: BR-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1800	36 to 38	Brown	lean fatty clay
Method: DPT			
Monitor Reading (ppm): 0.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): John G Walsh

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-01 & BR
Sample Location: AOC-018
Sampled By: JR/JL
C.O.C. No.: ~~TR-LTL-012~~ & BR-016 LTL-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-26-97 Time: ~~1840~~ 1840 TL Method: DPT Monitor Reading (ppm): 1.6	0' to 4'	~~Fine grained~~ ~~Sand~~ Dark Brown	fine grained sand w/gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): John G. Walters

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-08-02+DR
Sample Location: AOC-018
Sampled By: TR/JL
C.O.C. No.: LTL-012 & BR-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~1845~~ 1945 (TL)	4 to 8	Dark Brown	fine and medium grained sand w/gravel
Method: DPT			
Monitor Reading (ppm): 2.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

BR

MAP:

On separate sheet by FOL

Circle if Applicable:

(MS/MSD) See note.

Duplicate ID No.:

Signature(s):

John G Walton

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-03;BR
Sample Location: AOC-018
Sampled By: TN/JL
C.O.C. No.: LTL-012 & BR-017

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~1250~~ 1450 (FA)	8 to 12	Tan	fine grained sand well sorted
Method: DPT			
Monitor Reading (ppm): 1.6			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John C Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-019-04-BR
Sample Location: AOC-018
Sampled By: TR/JL
C.O.C. No.: BR-017

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~1900~~ 2000 (TR)	12 to 16	Dark Brown	Fine and medium grained sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 2.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-12-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-05-BR
Sample Location: AOC-018
Sampled By: JW/JL
C.O.C. No.: BR-017

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~1910~~ 2010 (FY)	16 to 20	Dark Brown	fine, medium, and some course grained sand
Method: DPT			
Monitor Reading (ppm): 21			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-019-06-BR
Sample Location: AOC-018
Sampled By: JW/JL
C.O.C. No.: BR-017

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~1925~~ 2025	20 to 24	Dark Brown	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 5.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-13-BR

Signature(s): John G Walters

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-07-BR
Sample Location: AOC-018
Sampled By: JW/JL
C.O.C. No.: BR-017

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-26-97 Time: 2040 Method: DPT Monitor Reading (ppm): 2.2	24 to 28	Dark brown to Olive	fine grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-08-BR
Sample Location: AOC-018
Sampled By: JW/JL
C.O.C. No.: BR-017

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2100	28 to 32	Dark Brown	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 1.6			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): J. L. Walter

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-09-BR
Sample Location: AOC-018
Sampled By: JW/JL
C.O.C. No.: BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1310	32 to 36	Dark Brown to Olive	fine, medium and course grained sand
Method: DPT			
Monitor Reading (ppm): 0.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster III

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-10-BR
Sample Location: AOC-018
Sampled By: JW/JL
C.O.C. No.: BL-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1330	36' to 40'	Dark Brown to Olive	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 3.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster III

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-11-BR
Sample Location: AOC-018
Sampled By: JW/JL
C.O.C. No.: BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-27-97 Time: 1350 Method: DPT Monitor Reading (ppm): 2.3	40 to 44	Dark Brown to Olive	fine, medium, and course grained poorly sorted sand w/pea gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): John G Webster III

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-12-BR
Sample Location: AOC-018
Sampled By: JW/JL
C.O.C. No.: B2-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1415	44 to 48	Dark Brown to Olive	fine, medium, course grained poorly sort sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 3.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD (See note.)

Duplicate ID No.:

Signature(s):

J. G. Webster III

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-13-BR
Sample Location: AOC-018
Sampled By: JW/JL
C.O.C. No.: BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1435	~~52 to 56~~ 48' to 52'	Dark Brown to Olive	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 3.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): Jeffrey G. Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-14-BR
Sample Location: AOC-018
Sampled By: JW/JL
C.O.C. No.: BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1500	No Recovery		
Method: DPT			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-) NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Walter

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-018-15-BR
Sample Location: AOC-018
Sampled By: JW/JL
C.O.C. No.: BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1530	56 to 60	Dark Brown to Olive	fine, medium and course grained sand
Method: DPT			
Monitor Reading (ppm): 2.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G. Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-074-01 & BR
Sample Location: AOC-074
Sampled By: JR/JL
C.O.C. No.: LTL-012 & BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1620	0' to 4'	Dark Brown to Black	fine grained silty sand - backfill
Method: DPT			
Monitor Reading (ppm): 0.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:
	003-SB-DP1-02 (Laucks)

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-074-02 BR
Sample Location: AOC-074
Sampled By: TR/JL
C.O.C. No.: LTL-012 & BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1635	4' to 8'	Tan	fine grained sand w/a sandy silt at top
Method: DPT			
Monitor Reading (ppm): 0.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-074-03 (BR)
Sample Location: AOC-074
Sampled By: TR/JL
C.O.C. No.: LTL-012 BR-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1645	8' to 12'	Tan	fine and medium grained sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 0.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-074-04-BR
Sample Location: AOC-074
Sampled By: TR/JL
C.O.C. No.: BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	12 to 16'	Dark Brown	fine, medium, course grained sand
Method: DPT			
Monitor Reading (ppm): 0.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD	Duplicate ID No.:
See note.	

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-074-05-BR
Sample Location: AOC-074
Sampled By: TR/JL
C.O.C. No.: BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	16' to 20'	Dark Brown	fine, medium, and course grained sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 0.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster III

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-074-06-BR
Sample Location: AOC-074
Sampled By: JW/JL
C.O.C. No.: BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1715	20 to 24	Dark Brown	fine and medium grained sand grading into a fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John G. Webster III

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-074-07-BR
Sample Location: AOC-074
Sampled By: JW/JL
C.O.C. No.: BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1730	24' to 28'	Dark Brown	fine, medium, course grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John G Webster III

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-074-08-BR
Sample Location: AOC-074
Sampled By: JL/JL
C.O.C. No.: BR-019

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-27-97 Time: 1745 Method: DPT Monitor Reading (ppm): ~~0.0~~ 0.3	28 to 32	Dark Brown to Olive	fine medium and course grained poorly sorted mature sand w/ pea gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 074-09-BR
Sample Location: AOC-074
Sampled By: JW/JL
C.O.C. No.: BR-019

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1945	32 to 36	Dark Brown to Olive	Fine, medium, course, very course grained poorly sorted mature sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-074-10-BR
Sample Location: AOC-74
Sampled By: JW/NL
C.O.C. No.: BR-019

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2005	36 to 40	Dark Brown to Olive	Fine, medium, course, and very course grained poorly sorted mature sandy/ gravel
Method: DPT			
Monitor Reading (ppm): 0.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster III

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-074-11-BR
Sample Location: AOC-074
Sampled By: JW/JL
C.O.C. No.: BR-019

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2030	40 to 44	Dark Brown to Brown	fine grained sand grading into a lean fatty clay
Method: DPT			
Monitor Reading (ppm): 0.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-14-BR

Signature(s): John G Waldron

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-01-BR
Sample Location: AOC-035
Sampled By: TR/JL
C.O.C. No.: CTL-013 & BR-020

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-28-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1805	0' to 4'	Brown w/Green tint	lean fatty clay
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals	✓	Laucks
Eh*	Collected in jar with metals	✓	Laucks
Ferrous Iron*	Collected in jar with metals	✓	Laucks
Sulfides*	Collected in jar with metals	✓	Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

LAUCKS - EVERYTHING including TAL TOC

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD (See note.)

Duplicate ID No.:

Signature(s):

John C Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-02!BR
Sample Location: AOC-035
Sampled By: JR/JL
C.O.C. No.: LTC-013 & BC-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-28-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1810	4' to 8'	Brown	fatty clay slight sandy grading into a fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-03 & BR
Sample Location: AOC-035
Sampled By: TR/JL
C.O.C. No.: LTL-013 & BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-28-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1820	8 to 12	Tan	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): J. G. Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-04-BR
Sample Location: AOC-035
Sampled By: TR/JL
C.O.C. No.: BR-020

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-28-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1850	12 to 16	Tan	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): J. L. Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-05-BR
Sample Location: AOC-035
Sampled By: TR/JL
C.O.C. No.: BR-020

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-28-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1905	16' to 20'	Tan	fine grained well sorted sand grading into a fine grained to slightly medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-06-BR
Sample Location: AOC-035
Sampled By: JW/JL
C.O.C. No.: Bar-020

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-28-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1920	20 to 24	Dark Grey to Olive	fine grained well sorted sand w/ slight gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-15-BR

Signature(s): John C Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-07-BR
Sample Location: AOC-035
Sampled By: JW/JL
C.O.C. No.: BR-020

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-28-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2030	24 to 28	Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-08-BR
Sample Location: AOC-035
Sampled By: JL/JL
C.O.C. No.: BR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-28-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2050	28 to 32	Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-09-BR
Sample Location: AOC-035
Sampled By: JW/JL
C.O.C. No.: BR-020

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-28-97 Time: 2340 Method: DPT Monitor Reading (ppm): 0.0	32 to 32	Dark Brown	fine grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-10-BR
Sample Location: AOC-035
Sampled By: JW/JL
C.O.C. No.: B2-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-28-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0000	36' to 40'	Dark Brown	fine to very fine grained sand
Method: DPT			
Monitor Reading (ppm): 2.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

(MS/MSD) See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-11-BR
Sample Location: AOC-035
Sampled By: JW/JL
C.O.C. No.: BR 022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-29-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0025	40 to 44	Dark Brown	very fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-12-BR
Sample Location: AOC-035
Sampled By: JW/JL
C.O.C. No.: BR-020

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-29-97 Time: 0045 Method: DPT Monitor Reading (ppm): 0.0	44' to 48'	Dark Brown	very fine grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-035-13-BR
Sample Location: AOC-035
Sampled By: JG/JL
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-29-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0115	No Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Sampled to 50 feet, encountered refusal, No sample was recovered upon extraction

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): J. L. Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-034-01 ; BR
Sample Location: ADC-034
Sampled By: TR/SL
C.O.C. No.: LTL-014 & BR-021

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-29-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1255	0 to 4	Buff Tan	fine, medium, course grained sand w/ heavy gravel - construction debris
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-034-02 & BR
Sample Location: AOC-034
Sampled By: TR ~~JB~~/JL
C.O.C. No.: LTL-014 & BR-021

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-29-97 Time: 1305 Method: DPT Monitor Reading (ppm): 0.0	4' to 8'	Brown	fine grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s): John C. Walsh

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-034-03'BR
Sample Location: AOC-034
Sampled By: TR/JL
C.O.C. No.: CTL-414 & BR-021

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 07-29-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1315	8 to 12	Brown	fine grained well sorted sand w/ oxidation striations
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-034-04-BR
Sample Location: AOC-034
Sampled By: TR/JL
C.O.C. No.: TR ~~LTL CT~~ BR-C21

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-29-97 Time: 1320 Method: DPT Monitor Reading (ppm): 0.0	12 to 16	Brown	fine grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-034-05-BR
Sample Location: AOC-034
Sampled By: JW/JL
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-29-97	No Recovery		
Time: 1330			
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

No Recovery due to equipment limitations. Also, stopped boring due to refusal.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-01 & BR
Sample Location: AOC-054
Sampled By: TR/SL
C.O.C. No.: LTL-015 & BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1600	0' to 4'	Dark Brown	fine, medium, and course grained sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-02:OR
Sample Location: AOC-054
Sampled By: TR/SL
C.O.C. No.: LTL-0157 & BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1620	4 to 8	Dark Brown to whitish/Green to Grey	Fine, medium, course grained sand w/gravel grading into a stiff fatty clay
Method: DPT			
Monitor Reading (ppm): 6.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Stained Soil

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John Wilson

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-03:BR
Sample Location: ADC-054
Sampled By: TR/SL
C.O.C. No.: BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	8 to 12	Brown	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

No Laucks sample recovered. Liner got jammed in sampler

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-04-BR
Sample Location: AOC-054
Sampled By: TR/JL
C.O.C. No.: BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1705	12' to 16'	Brown	fine to medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
--	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

J. L. Walton

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-05-BR
Sample Location: AOC-054
Sampled By: TR/JL
C.O.C. No.: BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1725	16 to 20	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-06-DA
Sample Location: AOC-054
Sampled By: JW/JL
C.O.C. No.: BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1750	20' to 24'	Brown	fine grained well sorted Sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-07-BR
Sample Location: AOC-054
Sampled By: FW/JL
C.O.C. No.: BR-022 & 023 DUP

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1810	24' to 28'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.: 003-SB-DP1-16-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-08-BR
Sample Location: AOC-054
Sampled By: JW/JL
C.O.C. No.: BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97 Time: 1830 Method: DPT Monitor Reading (ppm): 0.0	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	28' to 32'	Brown	fine grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-09-BR
Sample Location: AOC-054
Sampled By: SW/SL
C.O.C. No.: BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2030	32' to 36'	Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-10-BR
Sample Location: AOC-054
Sampled By: JW/JL
C.O.C. No.: BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2050	36' to 40'	Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-11-BR
Sample Location: AOC-054
Sampled By: JW/JL
C.O.C. No.: BC-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2120	40' to 44'	Dark Brown	fine grained to very fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John L Walton

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-12-BR
Sample Location: AOC-054
Sampled By: JW/SL
C.O.C. No.: BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2150	44 to 48	Dark Brown	fine to very fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-13-BR
Sample Location: AOC-054
Sampled By: JW/BL
C.O.C. No.: BK-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2210	48 to 52	Dark Brown	very fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-14-BR
Sample Location: AOC-054
Sampled By: JW/SL
C.O.C. No.: BL-023

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2240	52 to 56	Dark Brown	very fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-054-15-BR
Sample Location: AOC-054
Sampled By: JW/JL
C.O.C. No.: BR-023

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08-05-97 Time: 0005 Method: DPT Monitor Reading (ppm): 0.0	56 to 60	Dark Brown	very fine grained silty sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.: 003-SB-DP1-17-BR

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-01:BR
Sample Location: AOC-063
Sampled By: TR/JL
C.O.C. No.: CTL-OIC&BR-029

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1610	0' to 4'	Light Brown	fine, medium, course grained sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-02:BR
Sample Location: AOC-063
Sampled By: TR/JL
C.O.C. No.: LTC-0160 BL-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1620	4' to 8'	Light Brown	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-03:BR
Sample Location: AOC-063
Sampled By: TR/JL
C.O.C. No.: LTC-016 & BR-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1630	8' to 12'	Light Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC } BR
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-04-0R
Sample Location: AOC-063
Sampled By: JR/JL
C.O.C. No.: 82-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1640	12' to 16'	Light Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 6.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8/11 LJT ON LTL-019

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-05-0R
Sample Location: AOC-063
Sampled By: NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	Skipped sample		*
Method: DPT			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

* Upon switching from non-piston to piston the driller made a mistake and missed 16' to 20' interval.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John A Walter

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-06-BR ~~003-SB-063-05-BR~~ JW
Sample Location: AOC-063
Sampled By: JW/SL
C.O.C. No.: AC-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1710	~~16' to 20'~~ JW, 20' to 24'	Light Brown	fine grained well sorted sand; wet at bottom
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

John G Wilson

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-07-DR
Sample Location: AOC-063
Sampled By: JW/SL
C.O.C. No.: BR-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1730	~~20 to 24~~ (SW) 24 to 28	Dark Brown	fine grained well sorted sand grading into a fine to medium grained poorly sorted sand w/gravels
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-08-BR
Sample Location: AOC-063
Sampled By: JW/SL
C.O.C. No.: BR-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1800	28' to 32'	Dark Brown	fine and medium grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-18-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-09-BR
Sample Location: AOC-063
Sampled By: JW/JL
C.O.C. No.: BR-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2030	32 to 36	Dark Brown	fine grained to very fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-10-BR
Sample Location: AOC-063
Sampled By: JW/JL
C.O.C. No.: BR-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2130	36' to 40'	Dark Brown	fine grained silty sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD	Duplicate ID No.:
See note.	

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 063-11-BR
Sample Location: AOC-063
Sampled By: JU
C.O.C. No.: BR-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2225	40' to 44'	Dark Brown	very fine grained silty sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-12-BR
Sample Location: AOC-063
Sampled By: JW/JL
C.O.C. No.: BR-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2300	44' to 48'	Dark Brown	very fine grained silty sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-13-BR
Sample Location: AOC-063
Sampled By: NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	48 to 52	No Recovery	
Method: DPT			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

The piston did trip but medium was to soft to push up in liner

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-063-14-BR
Sample Location: AOC-063
Sampled By: JW/SL
C.O.C. No.: BK-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	52' to 56'	Dark Brown to Grey	very fine grained clayey silt (ML/CL)
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8-11-97 ON COC LTL-020

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-01 & BR
Sample Location: AOC-037
Sampled By: JR/JL
C.O.C. No.: LTL-017 & BK-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1815	0' to 4'	Dark Brown	fine & medium grained sandy silt
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-03 Laucks

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-02tBR
Sample Location: AOC-037
Sampled By: TR/JL
C.O.C. No.: LTC-0170 BR-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1830	4' to 8'	Dark Grey to a Brown	fatty sandy clay grading into a fine, medium, and course grained sand w/ gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-03 & BR
Sample Location: AOC-037
Sampled By: TR/SL
C.O.C. No.: LTL-017 & BR-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08-06-97 Time: 1835 Method: DPT Monitor Reading (ppm): 0.0	8' to 12'	Dark Brown	fine grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-04-DR
Sample Location: AOC-037
Sampled By: TR/SL
C.O.C. No.: BR-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1850	12' to 16'	Brown to Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John A Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-05-BR
Sample Location: AOC-037
Sampled By: JW/BL
C.O.C. No.: BL-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1905	16' to 20'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8-11-97 ON COC LTL-020

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-06-0R
Sample Location: AOC-037
Sampled By: SW/BL
C.O.C. No.: 0R-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1925	20' to 24'	Dark Brown	fine grained well sorted sand; wet
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-07-02
Sample Location: SDC-37
Sampled By: NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1945	24' to 28'	No Recovery	
Method: DPT			
Monitor Reading (ppm): ~~0.0~~			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Hit a gravel lens; broke piston

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-08-DR
Sample Location: AOC-037
Sampled By: JW/SL
C.O.C. No.: BC-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2025	28' to 32'	Dark Brown	fine to medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-09-DR
Sample Location: AOC-037
Sampled By: JW/TR
C.O.C. No.: BL-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2250	32' to 36'	Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-10-BR
Sample Location: AOC-037
Sampled By: SW/SL
C.O.C. No.: BL-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2340	36' to 40'	Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED TO LAUCKS FOR ANALYSIS ON 8-11-97 ON COC LTL-020

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-11-DR
Sample Location: AOC-37
Sampled By: NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0005	40 to 44	No Recovery	
Method: DPT			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Piston was not tripped. Gravel bent cutting shoe into piston.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- P06 - 01 :OR
Sample Location: P0-6
Sampled By: TR/SL
C.O.C. No.: LTL-018 & B2-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1635	0' to 4'	Brown to Tan	fine; medium grained sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 5.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P06-02(8)
Sample Location: P0-6
Sampled By: TR/JL
C.O.C. No.: BR-026 only

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	4'to8'	Tan	fine & medium grained sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
* TCL VOCs	2 oz. Jar	✓ JL	Laucks
* TCL SVOCs AND PCBs	8oz. Jar	✓ JL	Laucks
* TAL Metals / Cyanide	8oz. Jar	✓ JL	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

* Liner would not come out of the macro core not able to collect sample for Laucks
SHIPPED to LAUCKS FOR ANALYSIS 8-11-97 ON COC LTL-020

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): JL Walton

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- P06-03 & BR
Sample Location: P06
Sampled By: TR/JL
C.O.C. No.: LTL-018 & BR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	8' to 12'	Tan to Dark Brown	Fine & medium grained sand grading into a Fine & medium grained sand w/ heavy gravel 40%
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P06-04-BR
Sample Location: P0-6
Sampled By: TR/JL
C.O.C. No.: BR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1725	12' to 16'	Brown	fine, medium, and course grained sand w/ pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John Walter

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-~~AOC 2~~ P06-05-BR
Sample Location: ~~AOC 2~~ P-06
Sampled By: JWJL
C.O.C. No.: PR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1750	16' to 20'	Tan to Dark Brown	fine, medium, course grained poorly sorted sand grading into a fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8-11-97 ON COC LTL-020

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): JWJL

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P06-06-BR
Sample Location: P06
Sampled By: JW/JL
C.O.C. No.: BR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08-07-97 Time: 1820 Method: DPT Monitor Reading (ppm): 0.0	20' to 24'	Dark Brown to Grey	fine, medium, and course to very course grained poorly sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.: 003-SB-DP1-19-BR

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- P06-07-BR
Sample Location: P-06
Sampled By: JW/SL
C.O.C. No.: BR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1850	24' to 28'	Grey	fine, medium, and course to very course grained poorly sorted sand w/ some gravel
Method: DPT			
Monitor Reading (ppm): 6.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8-11-97 ON C.O.C LTL-020

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P06-08-BR
Sample Location: P0-6
Sampled By: (TW) ~~JWR~~ NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1725	28-32' No Recovery		
Method: DPT			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

EQ. REFUSAL - FRONT OF TRUCK CAME UP pulling out the macro core.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P01-01209
Sample Location: Area P01
Sampled By: TR/JL
C.O.C. No.: LTL-0184 & BR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2315	0' to 4'	Tan	fine, medium, and course grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-001-02;BR
Sample Location: PD-1
Sampled By: TR/JL
C.O.C. No.: LTL-018 & BR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2330	4' to 8'	Tan	fine medium and course grained sand w/gravel poorly sorted - grading into a fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P01-03-Dn
Sample Location: P01
Sampled By: TR/JL
C.O.C. No.: BR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08-07-97 Time: 2345 Method: DPT Monitor Reading (ppm): 0.0	8' to 12'	Tan	fine grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	—	Laucks
TCL SVOCs AND PCBs	8oz. Jar	—	Laucks
TAL Metals / Cyanide	8oz. Jar	—	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

No samples were taken ~~from~~ Laucks. → SHIPPED to LAUCKS FOR ANALYSIS 8/11/97 ON COFC LTL-020

The liner got over-compacted and as a result only Field GC samples were taken from bottom of sampler.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P01-04-BR
Sample Location: P01
Sampled By: JV/JL
C.O.C. No.: BR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0003	12' to 16'	Tan	fine grained semi rounded well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P01-05-BR
Sample Location: P01
Sampled By: JW/JL
C.O.C. No.: BR-027

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1610	16' to 20'	Tan to Dark Grey - H2O	fine grained well sorted sand water at 19 feet bgs
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED TO LAUCKS FOR ANALYSIS 8/11/97 ON COC LTL-020

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-20-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P01-06-BR
Sample Location: P01
Sampled By: JW/JL
C.O.C. No.: BR-027

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	20' to 24'	Brown to Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

John C. Webster

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P01-07-BR
Sample Location: P01
Sampled By: JW/JL
C.O.C. No.: BR-027

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1705	24 to 28	Brown to Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P01-08-DR
Sample Location: P01
Sampled By: JWJL
C.O.C. No.: BA-027

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1735	28'-32'	Brown to Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P01-09-BR
Sample Location: P01
Sampled By: JW/JL
C.O.C. No.: BR-027

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2035	32'-36'	Brown to Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.6			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8/11/97 ON COFC LTL-020

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P01-10-BR
Sample Location: P01
Sampled By: —
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2/20	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: —	No Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-NA)

Piston tripped, but No Sample was recovered. Going to end boring based on difficulties pulling rods out. Refusal

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-01&02
Sample Location: AOC-023
Sampled By: TRJL
C.O.C. No.: LTL-019 & BR-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1245	0 to 4	Tan to Brown	fine grained well sorted sand w/ pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-02 & BR
Sample Location: AOC-023
Sampled By: TR/SL
C.O.C. No.: LTC-014 & BR-028

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1250	4' to 8'	Tan to Brown	fine, medium, and course grained poorly sorted sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-03 BR
Sample Location: AOC-023
Sampled By: TR/JL
C.O.C. No.: 476-019 + BR-02

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1255	8' to 12'	Tan to Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-04-02
Sample Location: AOC-023
Sampled By: TR/JL
C.O.C. No.: B2-028

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1305	12' to 16'	Tan to Dark Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 023-05-BR
Sample Location: AOC-023
Sampled By: JW/SL
C.O.C. No.: BR-028

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1315	16' to 20'	Brown to Dark Brown	fine grained well sorted sand grading into a fine medium and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 3.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

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MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-06-BR
Sample Location: AOC-023
Sampled By: JW/BL
C.O.C. No.: BR-022

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1330	20' to 24'	Dark Brown to Gray	fine, granular medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 3.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-07-BR
Sample Location: AOC-023
Sampled By: JW/JL
C.O.C. No.: BR-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1345	24 to 28	Dark Brown to Gray	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 3.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): JW Waltz

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-08-BR
Sample Location: AOC-023
Sampled By: JW/BL
C.O.C. No.: BR-028

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1400	28' to 32'	Brown to Dark Brown	fine, medium, and coarse grained poorly sorted sand grading into a slightly better sorted fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 1.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John Doe

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-09-BR
Sample Location: AOC-023
Sampled By: JW/SL
C.O.C. No.: BR-028

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1620	32 to 36'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-10-BR
Sample Location: AOC-023
Sampled By: JW/SL
C.O.C. No.: BR-025

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1635	36' to 40'	Brown to Gray	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 13			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-21-BR

Signature(s): JW SL

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-11-OR
Sample Location: AOC-023
Sampled By: JWL
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	No Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

The piston tripped, but sample washed out of the bottom. Fine grained well sorted Sand is soft to push through.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-12-BR
Sample Location: AOC-023
Sampled By: JW/JL
C.O.C. No.: BR-028

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1715	44 to 48	Dark Grey to Brown	fine & medium grained poorly sorted sand grading into a very fine grained sand
Method: DPT			
Monitor Reading (ppm): 1.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-13-BR
Sample Location: AOC-023
Sampled By: JW/JL
C.O.C. No.: BR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1800	48 to 52	Brown & Dark Grey	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 1.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-14-01
Sample Location: AOC-023
Sampled By: SJ/JL
C.O.C. No.: BR-028

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 06-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1830	52 to 56	Dark Grey to Dark Brown	fine grained well sorted sand grading into a fine grained sands silt grading back into a fine grained sand
Method: DPT			
Monitor Reading (ppm): 1.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-023-15-BR
Sample Location: AOC-023
Sampled By: JW/SL
C.O.C. No.: BR-029

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2025	56 to 60	Grey to Brown	fine, medium and course grained poorly sorted sand w/gravel - evidence of a fatty lean clay in cuttyshoe
Method: DPT			
Monitor Reading (ppm): 1.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

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MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P12-01 & BR
Sample Location: P12
Sampled By: TR/SL
C.O.C. No.: LTL-019 & BR-030

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08-~~09~~10-97 Time: 1330 Method: DPT Monitor Reading (ppm): 0.0	0' to 4'	Tan to Brown	fine ~~[illegible]~~ grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC } BR
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Laucks for Metals & CH^-

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P12-02 & BR
Sample Location: P-12
Sampled By: TR/SL
C.O.C. No.: LTC-014 & 022-030

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1340	4' to 8'	Tan to Brown	fine grained well sorted sand grading into a fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P12-03;BR
Sample Location: P12
Sampled By: TR/JL
C.O.C. No.: LTC-019 EBR-030

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1350	8 to 12'	Tan to Brown	fine, medium, and course grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- P12-04-BR
Sample Location: ~~B07~~ P12
Sampled By: TR/JL
C.O.C. No.: BR-030

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1400	12 to 16	Brown to Dark Grey	fine, medium and course grained poorly sorted sand grading into a fatty lean slightly sandy clay
Method: DPT			
Monitor Reading (ppm): 0.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- P12 - 05-NR
Sample Location: P-12
Sampled By: TR/SL
C.O.C. No.: BR-030

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1410	16' to 20'	Dark Brown to Dark Grey	fatty lean clay slight sand and gravel inclusions
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS ON 8-13-97 ON COC LTL-021

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-012-06-BR
Sample Location: P12
Sampled By: JL/JM
C.O.C. No.: BR-038

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1435	20 to 24	Dark Brown to Grey	Fatty lean/slight sand and gravel inclusions/clay
Method: DPT			
Monitor Reading (ppm): 1.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

(MS/MSD) See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P12-07-01
Sample Location: P-12
Sampled By: JWPL
C.O.C. No.: B12-030

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1455	24 to 28	No Recovery	correlated clay from above and below
Method: DPT			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	1	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P.12-08-01
Sample Location: P-12
Sampled By: JW/SL
C.O.C. No.: BR-030

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1550	28' to 32'	Dark Brown to Grey	fatty lean clay slight sand grading into a fatty ~~clay~~ more sandy clay
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P12-09-BR
Sample Location: D10
Sampled By: JW/SL
C.O.C. No.: BR-030

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-10-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1610	32 to 36	Brown to Grey	Medium/course to very course grained Sand w/pebbles and heavy gravel grading into a fine/medium to course grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P12-40-BR
Sample Location: P-12
Sampled By: JW/JL
C.O.C. No.: BR-031

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-11-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1605	36' to 40'	Dark Brown to Olive	fine grained well sorted sand grading into a fine, medium, and course grained poorly sorted sand w/ peg and large gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-B12-11-BR
Sample Location: B-12
Sampled By: JW/SL
C.O.C. No.: BR-031

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-11-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1630	40 to 44	Brown	very fine to fine grained sand well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8/13/97 ON CoFC LTL-021

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P12-12BR
Sample Location: P-12
Sampled By: JW/BR
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-11-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1657	~~40 to 44~~ 44 to 48	No Recovery	
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Fine grained sand locked piston and it would not push.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-036-01 & BR
Sample Location: BOC-036
Sampled By: TRJR
C.O.C. No.: LTC-021 & BR-031

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1630	0' to 4'	Dark Brown	fine, medium, and course grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC } BR
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-036-02 (BR)
Sample Location: AOC-036
Sampled By: TR/JL
C.O.C. No.: LTL-021 & BR-031

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-11-97 8-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1635	4'to 8'	Tan to White	fine, medium, and coarse grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-036-03&02
Sample Location: AOC-036
Sampled By: TR/JL
C.O.C. No.: LTC-021 & BR-031

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: ~~08-11-97~~ 8-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1645	8 to 12	Tan to White	Fine, medium, and course grained poorly sorted sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavaient Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-036-04-BR
Sample Location: AOC-036
Sampled By: TR/JL
C.O.C. No.: BR-031

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: ~~08-11-97~~ 08-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1655	12' to 16'	Tan to White	fine, medium, and course grained poorly sorted sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-036-05-DR
Sample Location: AOC-036
Sampled By: JR/JL
C.O.C. No.: BR-031

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1715	16' to 20'	Tan to Dark Brown	fine, medium, and course grained poorly w/ pea gravel
Method: DPT			
Monitor Reading (ppm): 5.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS ON 8/13/97 ON COC LTL-021; Also shipped dup SAME date.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.: 003-SD-DP1-22-DR

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-036-06-02
Sample Location: AOC-036
Sampled By: TW/BL
C.O.C. No.: BR-031

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1730	20' to 24'	Dark Brown to Brown	fine, medium, and coarse grained poorly sorted sand grading into a fatty lean clay w/ slight sand and gravel inclusions
Method: DPT			
Monitor Reading (ppm): 0.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-036-07-BR
Sample Location: AOC-036
Sampled By: SW/HL
C.O.C. No.: BR-031

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1805	24' to 28'	Dark Brown	fatty lean clay w/ slight sand and gravel inclusions
Method: DPT			
Monitor Reading (ppm): 1.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS for ANALYSIS 8/13/97 ON COC LTL-021

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-01 & BR
Sample Location: P02
Sampled By: TR/SL
C.O.C. No.: LTL-023 & BR-032

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2120	0' to 4'	Tan	fine, medium, and course grained poorly sorted sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 0.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-02 ; BR
Sample Location: P02
Sampled By: TR/JL
C.O.C. No.: LTL-023 & BR-032

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2130	4' to 8'	Tan	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-002-03:00
Sample Location: P02
Sampled By: JR/SL
C.O.C. No.: LTC-023 & BR-032

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2140	8' to 12'	Tan to White	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-04-BR
Sample Location: P02
Sampled By: TR/BL
C.O.C. No.: BR-032

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2155	12' to 16'	Tan to White	fine medium and course grained poorly sorted sand w/ Heavy gravel at base
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-05-0R
Sample Location: P02
Sampled By: JV/JL
C.O.C. No.: BR-032

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2215	16' to 20'	Tan to Brown	fine and medium grained sand in a course grained sand matrix
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + o(-)

SHIPPED to LAUCKS FOR ANALYSIS 8/21/97 ON COC LTL-025; ALSO, SHIPPED DUP SAME DATE.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-23-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-06-BR
Sample Location: P02
Sampled By: JU/JL
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2230	No Recovery		—
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

piston did not trip

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-07-BR
Sample Location: P02
Sampled By: JW/SL
C.O.C. No.: BR-032

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2350	24' to 28'	Brown to Olive	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-08-BR
Sample Location: P02
Sampled By: JW/JL
C.O.C. No.: BR-032

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2335	28' to 32'	Brown to Olive	fine, medium, and course grained poorly sorted sand grading into a fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-09-09
Sample Location: P02
Sampled By: JW/JL
C.O.C. No.: BR-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1630	32 to 36'	Brown fine to	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-10-00
Sample Location: P02
Sampled By: JWJL
C.O.C. No.: BR-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	36' to 40'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

(MS/MSD) See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-002-11-BR
Sample Location: P02
Sampled By: JW/SL
C.O.C. No.: BR-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1730	40 to 44	Brownish Olive	fine, medium, and coarse grained poorly sorted sand grading into a fine and medium grained sandy gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-12-BR
Sample Location: P02
Sampled By: JW/JL
C.O.C. No.: BR-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1755	44' to 48'	Brown	fine, medium, and coarse grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-13-BR
Sample Location: P02
Sampled By: JW/JL
C.O.C. No.: BR-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1825	48' to 52'	Brown	fine, medium, and coarse grained poorly sorted sand w/gravel - 2" sandy silt lens in interval
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

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Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:
	003-SB-DP1-24-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P02-14-01
Sample Location: P02
Sampled By: JWBL
C.O.C. No.: BR-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1850	52' to 56'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

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Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY. (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-002-15-BR
Sample Location: D07
Sampled By: JW/SL
C.O.C. No.: BR-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1925	56' to 60'	Brown	fine & medium grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 9/21/97 ON COC LTL-025

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-01 (BR)
Sample Location: AOC-058
Sampled By: TR/JL
C.O.C. No.: BR-033 & LTL-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2135	0' to 4'	Black	Stiff sandy silt - Fill material
Method: DPT			
Monitor Reading (ppm): 0.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

LAUCKS

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.: 003-SB-DD1-04 (Laucks)

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-02 & 03
Sample Location: AOC-058
Sampled By: TR/SL
C.O.C. No.: LTC-024 & BR-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2150	4'to8'	Tan	fine, medium, and course grained poorly sorted sand w/large gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-03-BR
Sample Location: AOC-058
Sampled By: TR/JL
C.O.C. No.: LTC-024 & BR-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2200	8' to 12'	Tan to Brown	fine medium and coarse grained poorly sorted sand grading into a fine and medium grained sand - better sorted
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-04-BR
Sample Location: AOC-058
Sampled By: TRSL
C.O.C. No.: BR-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2215	12' to 16'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-05-BR
Sample Location: AOC-058
Sampled By: JW/FOL
C.O.C. No.: BR-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2230	16' to 20'	Brown	fine grained well sorted sand w/ large gravel
Method: DPT			
Monitor Reading (ppm): 4.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS for Analysis 8/21/97 ON COC LTL-025; Also, shipped Dup. SAME date

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:
	003-SB-DP1-25-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-06-01
Sample Location: AOC-058
Sampled By: JLK
C.O.C. No.: BL-033

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2245	20' to 24'	Brown	Fine, medium, and coarse grained poorly sorted sand w/ pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-07-BR
Sample Location: AOC-058
Sampled By: JW/SL
C.O.C. No.: BR-034

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2300	24' to 28'	Brown	fine, and medium grained sand better sorted
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-08-DR
Sample Location: AOC-058
Sampled By: SW/SL
C.O.C. No.: BR-034

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 03-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2330	28' to 32'	Brown	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-09-BR
Sample Location: AOC-058
Sampled By: JW/OL
C.O.C. No.: BR-035

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-20-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	32' to 36'	Brown	fine, medium, and course grained poorly sorted sand grading into fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-10-BR
Sample Location: AOC-058
Sampled By: NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 1730	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: —	36 to 40	No Recovery →	
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Fine grained sample locked pistons up

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 058-11-02
Sample Location: HOC-058
Sampled By: JW/SC
C.O.C. No.: BR-035

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-20-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1945	40'to44'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-12-BR
Sample Location: AOC-058
Sampled By: JW/JL
C.O.C. No.: BR-035

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08-20-97 Time: 2225 Method: DPT Monitor Reading (ppm): 1.8	44' to 48'	Brown	fine grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-26-BR

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-13-BR
Sample Location: AOC-058
Sampled By: JW/JL
C.O.C. No.: BR-035

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-20-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2310	48' to 52'	Brown	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 1.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-14-BR 2 ~~003-SB-058-14-BR~~ (TE)
Sample Location: AOC-058
Sampled By: JL/SL
C.O.C. No.: BA-035

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0100	52' to 56'	Brown	fine grained ~~sand~~ (10) silty sand
Method: DPT			
Monitor Reading (ppm): 0.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-058-15-01
Sample Location: AOC-058
Sampled By: JW/SL
C.O.C. No.: BR-035

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0145	56' to 60'	Brown	fine grained well sorted sand w/ some fine grained silty sand lenses
Method: DPT			
Monitor Reading (ppm): 1.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-) Analysis 8/21/97

SHIPPED to LAUCKS FOR ON CoFC LTL-025

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-01'BL
Sample Location: AOC-007
Sampled By: TBL
C.O.C. No.: LTL-026 & BR-036

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1715	0 to 4'	Black to Brown	fine grained sandy silt grading into a fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

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OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-08-GR
Sample Location: AOC-007
Sampled By: SWBL
C.O.C. No.: BA-03C

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2020	28 to 32	Tan to Grey	fine grained sand, but more medium and course grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-09-01
Sample Location: AOC-007
Sampled By: JW/BL
C.O.C. No.: BL-036

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2250	32'to 36'	Brown	fine, medium, and course-grained poorly sorted sand w/a fine grained sand lens
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-007-10-BR
Sample Location: AOC-007
Sampled By: JW/BL
C.O.C. No.: BR-036

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2315	36' to 40'	Brown	fine, medium, and course grained poorly sorted sand w/ some gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-11(FL)-BR
Sample Location: AOC-007
Sampled By: JW/BL
C.O.C. No.: BL-036

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2345	40 to 44	Brown	fine, medium, and coarse grained poorly sorted sand w/ large gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR Analysis 8/22/97
ON CoC LTL-026

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:
	003-SD-DP1-28-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-12-BR
Sample Location: AOC-007
Sampled By: ~~JL/BL~~ (TK) NIA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0900	No Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Sample washed out at the end of macro core sampler

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-00713-BR
Sample Location: AOC-007
Sampled By: NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0045	NO Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Sample got washed out of the end of the macro core sampler

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-02 BR
Sample Location: AOC-007
Sampled By: TR/BL
C.O.C. No.: LTL-026 & BR-036

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1730	4' to 8'	Brown to Tan	fine, medium, and course grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-03(BR
Sample Location: AOC-007
Sampled By: JR/SL
C.O.C. No.: LTL-026 & BR-036

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 03-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1740	8 to 12	Tan to Brown	Some fine, but more medium to course grained poorly sorted sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD (See note.)

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-04-BA
Sample Location: AOC-007
Sampled By: JW/JL
C.O.C. No.: BR-036

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1805	12 to 16	Tan to Brown	Some fine grained but more medium to course grained poorly sorted sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-05-GR
Sample Location: AOC-007
Sampled By: JW/SL
C.O.C. No.: BR-036

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1855	16' to 20'	Tan to Brown	Some fine grained but more medium to course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8/22/97 ON CofC LTL-026

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-06-BR
Sample Location: ~~FD-AOC-007~~ AOC-7
Sampled By: JW/JC
C.O.C. No.: BR-036

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1925	20 to 24'	Tan to Brown	some Clay but more medium to coarse grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-27-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-07-BR
Sample Location: AOC 007
Sampled By: JW/JL
C.O.C. No.: BR-036

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1955	24 to 28	Tan to Brown	Sand fine but more medium and coarse grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-14-OR
Sample Location: AOC-007
Sampled By: [illegible] NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08-22-97	No Recovery		—
Time: ~~0220~~ 0120			
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Sample wash out of the end of sampler:

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-15-BR
Sample Location: AOC-007
Sampled By: TR ~~JS~~ NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~0300~~ to 0200	No Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-027-01 BL
Sample Location: AOC-027
Sampled By: TR/BL
C.O.C. No.: ITL-027 & BR-037

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1705	0 to 4	Tan	fine and medium grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-027-02 i BR
Sample Location: AOC-027
Sampled By: TR/IL
C.O.C. No.: ITL-027 + BR-027

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1710	4 to 8'	Tan	fine, medium, and course grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-027-03 & BR
Sample Location: AOC-027
Sampled By: TR/SC
C.O.C. No.: LTC-027 & BR-037

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1725	8 to 12	Tan	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-027-04-BR
Sample Location: ADC-027
Sampled By: JW/SL
C.O.C. No.: BR-037

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1735	12 to 16	Brown to Dark Tan	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-~~97~~-05-BR
Sample Location: AOC-027
Sampled By: JW/SC
C.O.C. No.: B2-037

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1805	16' to 20'	Dark Tan	fine, medium, and course grained poorly sorted sand w/ large gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

The liner got jammed inside the macro core due to heavy gravel in sample. Collect sample from the bottom of the macro core.
SHIPPED to LAUCKS FOR ANALYSIS 8/25/97 ON COoC LTL-027

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-007-06-B2
Sample Location: NOC-027
Sampled By: JH/BL
C.O.C. No.: BR-037

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2000	20to24	Dark Brown	fine, medium, and coarse grained poorly sorted sand w/ large gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Due to equipment limitations when pulling rods from boring, stratoprobe stalled out, decided to end boring and continous sampling.

MAP:

On separate sheet by FOL

→ SHIPPED to Laucks for ANALYSIS ON 8/25/97 ON COFC LTL-027

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-030-01 (BR)
Sample Location: AOC-030
Sampled By: TR/BC
C.O.C. No.: <TC-027; BR-038

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1100	0 to 5	Tan to Whitish	fine, medium, and coarse grained poorly sorted sand w/ some gravel
Method: DPT			
Monitor Reading (ppm): 0.6			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-030-02i BR
Sample Location: AOC-030
Sampled By: TR/SL
C.O.C. No.: CTL-027 & BR-038

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1415	5 to 8'	Tan to Light Brown	fine, medium, and course grained poorly sorted sand grading into a L.B. fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 3.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD (See note.)

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-030-03 (BK)
Sample Location: AOC-030
Sampled By: TR/BL
C.O.C. No.: LTL-0274 BR-038

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1435	8' to 12'	Tan to Light Brown	more fine grained but some medium and course grained sand
Method: DPT			
Monitor Reading (ppm): 0.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-030-04-BR
Sample Location: BOC-030
Sampled By: JW/JC
C.O.C. No.: BR-038

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1530	12' to 16'	Tan	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 5.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8/25/97 ON COFC LTL-027

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P09-01BR
Sample Location: P09
Sampled By: TRJL
C.O.C. No.: LTL-028 & BR-038

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1935	0'to 4'	Tan	fine, medium, and course grained Poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 1.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.: 003-SB-DP1-05

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB P09-02 & BR
Sample Location: P09
Sampled By: TR/BL
C.O.C. No.: LTL-028 & BR-038

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1940	4'to 8'	Tan	fine, medium, and course grained poorly sorted sand w/ large gravel
Method: DPT			
Monitor Reading (ppm): 1.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC } BR
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P09-03iBL
Sample Location: P09
Sampled By: TR/JL
C.O.C. No.: LTL-0288BR-038

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1950	8' to 12'	Tan	fine, medium, and course grained poorly sorted sand w/large gravel
Method: DPT			
Monitor Reading (ppm): 10.6			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P09-04-BR
Sample Location: P09
Sampled By: TR/JL
C.O.C. No.: BR-038

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2005	12 to 16	Brown to Grey	sandy clay grading into a fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 5.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-29-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P09-05-BR
Sample Location: P09
Sampled By: TR/JL
C.O.C. No.: BR-038

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2015	16' to 20'	Tan to Light Brown	Fine grained sand but some medium and coarse grained as well. A Silver
Method: DPT			
Monitor Reading (ppm): 2.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8/25/97 ON COC LTL-028

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-009-06-BR
Sample Location: P89
Sampled By: JWJC
C.O.C. No.: BR-035

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-23/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2050	20 to 24	Tan to Brown	Fine, medium, and coarse grained poorly sorted sand with
Method: DPT			
Monitor Reading (ppm): 205			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Hot

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-009-07-BR
Sample Location: P09
Sampled By: JWL
C.O.C. No.: BR-035

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2125	24 to 28	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 138.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-30-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P09-08-BL
Sample Location: P09
Sampled By: JV/JL
C.O.C. No.: BR-038

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2205	28 to 32	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): ~~138.7~~ 3.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P09-09-BR
Sample Location: P09
Sampled By: JW/BL
C.O.C. No.: ~~BR-039~~ (FR) BR-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1435	32'h 36'	Brown	Fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 18.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8/25 ON COC LTL-028

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-01 BR
Sample Location: AOC-055
Sampled By: JH/SC
C.O.C. No.: LTL-028
BR-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1600	0' to 4'	Brown to Black	Fatty sandy clay grading into a fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Minimal Sample Vol.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD (See note.)

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-02BR
Sample Location: AOC-055
Sampled By: TR/SC
C.O.C. No.: LTL-028 BR-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1610	4 to 8	Brown to Dark Brown-Gray	fine, medium, and coarse grained poorly sorted sand grading into a fatty sandy clay
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Minimal Sample Vol.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Terry Rojek FOL JW

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-03:BR
Sample Location: AOC-055
Sampled By: TRK
C.O.C. No.: LTC-038 BR-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1615	8' to 12'	Brown-Grey to Brown	- fatty sandy clay grading into a clayey sand into a fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-OU-02
Sample Location: AOC-055
Sampled By: TR/JL
C.O.C. No.: BR-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1625	12 to 16	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-05-BR
Sample Location: AOC-055
Sampled By: TR/SL
C.O.C. No.: BR-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1630	16 to 20	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

SHIPPED to LAUCKS FOR ANALYSIS 8/25/97 ON COC LTL-029

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-06-BR
Sample Location: AOC-055
Sampled By: JL/JBW
C.O.C. No.: BR-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1640	20 to 24	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-07-BR
Sample Location: AOC-055
Sampled By: JW/JL
C.O.C. No.: BR-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	24 to 28	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-08-BR
Sample Location: AOC-055
Sampled By: JW/JL
C.O.C. No.: BR-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08-24-97 Time: 1725 Method: DPT Monitor Reading (ppm): 0.0	28 to 32	Olive to Grey	fine and medium grained sand w/ large gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD	Duplicate ID No.:
See note.	003-SB-DP1-31-BR

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-09-BR
Sample Location: AOC-055
Sampled By: JWBL
C.O.C. No.: BR-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1935	32 to 36	Oliver to Grey	fine grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 055-10-BR
Sample Location: AOC-055
Sampled By: JW/DL
C.O.C. No.: BR-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2010	36 to 40	Brown	Fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-11-BL
Sample Location: AOC-055
Sampled By: JRJBL
C.O.C. No.: BL-040

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1620	40 to 44	Brown	Fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-12-BR
Sample Location: AOC-055
Sampled By: JL/JL
C.O.C. No.: B26040

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	44 to 48	Olive to Grey	fine grained well sorted sand grading into a fine to very fine grained sand more cohesiveness.
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

(MS/MSD) See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-13-00
Sample Location: AOC-055
Sampled By: JW/SL
C.O.C. No.: Ba-040

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1720	48 to 52	Brown	very fine grained sand slight silty
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-14.0R
Sample Location: AOC. 055
Sampled By: JL/BL
C.O.C. No.: BR-040

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0800	52 to 56	Brown	very fine grained sandy silt very cohesive.
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:
	003-SB-DP1-32-DR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-055-15-02
Sample Location: AOC-055
Sampled By: JWSL
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1825	No Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -*

Sample was collected at the bottom of the core

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	003-SB-032-01 & BR
Project No.:	6966	Sample Location:	AOC-032
		Sampled By:	JR/JL
		C.O.C. No.:	LTL-030
			BR-040

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 03-25-97 Time: 2105 Method: DPT Monitor Reading (ppm): 1.0	0 to 4	Black	- silty sand - fill grading into a fine, medium, and coarse grained poorly sorted sand w/gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC } BR
NAPL - UV Light Test	4 oz. Jar	✓	Field Test } BR
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 032-02 (BR)
Sample Location: AOC-032
Sampled By: ~~SW~~ TR/JL
C.O.C. No.: LTL-030
BR-040

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2115	4' to 8'	Brown	- fine, medium and course grained poorly sorted sand w/gravel grading into a silty sand - fill material
Method: DPT		Black —	
Monitor Reading (ppm): 66.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): (+) or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 032-03 BR
Sample Location: AOC-032
Sampled By: TR/JL
C.O.C. No.: LTC-030
BA-040

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc)
Time: 2120	8' to 12'	Black-Dark Brown	silty sand - oil grading into a fine, medium, and coarse grained rock & the sand
Method: DPT			
Monitor Reading (ppm): 418.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-032-04-BR
Sample Location: ADC-032
Sampled By: TR/JL
C.O.C. No.: BR-040

Type of Sample:
[X] Low Concentration
[] High Concentration

fill at top silty sand

GRAB SAMPLE DATA:

Date: 08-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1230	12' to 16'	Black to Dark Brown	fine, medium, and course grained poorly sorted sand w/ heavy pea and large gravel
Method: DPT			
Monitor Reading (ppm): 109.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): (+) or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:
	003-SB-DP1-33-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-032-05-0R
Sample Location: AOC-032
Sampled By: TR/SL
C.O.C. No.: BA-040

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2145	16' to 20'	Dark Brown	fine, medium and course grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 5.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-032-06-DN
Sample Location: AOC-032
Sampled By: JW/BL
C.O.C. No.: BR-040

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~07~~ 1205	20'to24'	Dark Brown	fine, medium and coarse grained poorly sorted sand w/gravel medium grained
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-032-07-BR
Sample Location: AOC - 32
Sampled By: JW/JL
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2225	24-28'	No Recovery	———
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Sample washed out

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Ty Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-032-08-BR
Sample Location: AOC-032
Sampled By: JW/JL
C.O.C. No.: BR-040

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2940	28'to 32'	Grey	fine, medium, and course grained poorly sorted sand w/ pea gravel
Method: DPT			
Monitor Reading (ppm): 00			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-032-09-BR
Sample Location: AOC-032
Sampled By: JW/SL
C.O.C. No.: BR-041

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1630	32'to 36'	Grey	fine grained but more medium, course, and very course grained poorly sorted sand. w/pea and large gravel mature seams
Method: DPT			
Monitor Reading (ppm): 1.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 032-D-BL
Sample Location: B07-032
Sampled By: JW/JL
C.O.C. No.: BL-041

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1655	36 to 40'	Grey	some fine but more medium, course and very course grained poorly sorted sand w/ pea and large gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-032-~~[illegible]~~ 11-BR
Sample Location: AOC-032
Sampled By: JW/JL
C.O.C. No.: BR-041

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08-26-97 Time: 1725 Method: DPT Monitor Reading (ppm): 0.0	40'to44'	Grey	Some fine but more medium, course and very course grained poorly sorted sand w/ pea and large gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-032-12-BR
Sample Location: AOC-032
Sampled By: JW/JL
C.O.C. No.: BR-041

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08-26-97 Time: 1815 Method: DPT Monitor Reading (ppm): 0.0	44'-48'	Grey	Some fine bituminous medium, coarse, very coarse grained poorly sorted sand w/pea gravel mature grains

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD	Duplicate ID No.:
See note.	

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-032-13-BR
Sample Location: AOC-032
Sampled By: JW/JL
C.O.C. No.: BR-041

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1840	48 to 52	Grey	Some fine but more medium, coarse, and very coarse grained poorly sorted sand w/ pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	003-SB-032-14-BR
Project No.:	6966	Sample Location:	AOC-032
		Sampled By:	JW/JL
		C.O.C. No.:	BR-041

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08-26-97 Time: 1925 Method: DPT Monitor Reading (ppm): 0.0	52' to 56'	Grey	fine, medium, course, very course grained poorly sorted sand w pea and large gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-032-15-BR
Sample Location: AOC-032
Sampled By: JW/JL
C.O.C. No.: BR-041

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-26-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2010	56' to 60'	Grey	fine, medium, coarse, very coarse gravel poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P08-01 (0')
Sample Location: P08
Sampled By: TR/SL
C.O.C. No.: LTL-032
BR-042

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-02-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2200	0' to 4'	Dark Brown to Tan	fine, medium, and coarse grained sand w/ some gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-008-0204
Sample Location: 008
Sampled By: TR/BL
C.O.C. No.: BR-042

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-02-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2205	4'to 8'	Dark Brown to Olive	fine, and medium grained sand w/ some clayey sand pockets
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓ (3)	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓ (3)	Laucks
TAL Metals / Cyanide	8oz. Jar	✓ (3)	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Low recovery in sample not enough for Laucks.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P08-03 ; DR
Sample Location: P08
Sampled By: TRL
C.O.C. No.: LTC - 032
BR - 042

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-02-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2230	8' to 12'	Dark Brown to ~~Olive~~ Brown	fine grained silty sand .5' grading into a fine, medium, course, very course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P08-04-BL
Sample Location: P08
Sampled By: TR/SC
C.O.C. No.: BL-042

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1235	12' to 16'	Brown	Fine, medium, and course - very course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P08-05-BR
Sample Location: P08
Sampled By: TR/JL
C.O.C. No.: BR-042

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-02-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2245	16'+20'	Dark Brown to Olive	fine and medium grained sand better sorting
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-34-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P09-06-BL
Sample Location: P09
Sampled By: TR/JL
C.O.C. No.: BR-042

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-02-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2300	20 to 24'	Dark Brown to Olive	fine and medium grained sand wet
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Collected sample by pounding it out of the macro-core result of over compaction

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P08-07-BR
Sample Location: P08
Sampled By: JUH
C.O.C. No.: BR-042

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-02-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2320	24 to 28'	Olive to Grey	fine, medium, course, very course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavient chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P08-08-01
Sample Location: P0-8
Sampled By: JW/JL
C.O.C. No.: B1-042

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-03-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0000	28' to 32'	Grey	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-008-09-SL
Sample Location: 008
Sampled By: JV/SL
C.O.C. No.: BR-043

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-03-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1630	32' to 36'	Grey	fine, medium, and coarse grained poorly sorted sand.
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-008-10-BR
Sample Location: 008
Sampled By: JW/JL
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-03-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	36'to40'	Grey	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

No Field GC sample collected. The sample washed out of the macro core. A UV sample was collected from residual sample

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P08-11-BR
Sample Location: P08
Sampled By: JLJC
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-03-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1725	No	Recovery	
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓ (JC)	Field GC
NAPL - UV Light Test	4 oz. Jar	✓ (JC)	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Sample washed out of the end of the macro core. No residual to collect

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P08-12-01
Sample Location: P08
Sampled By: JW/SC
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-03-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1815	44 to 48	Grey	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P08-13-BR
Sample Location: P08
Sampled By: SW/JL
C.O.C. No.: BR-043

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-03-97 Time: 1845 Method: DPT Monitor Reading (ppm): 0.0	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	48 to 52	Grey	fine, medium, and course grained poorly sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.: 003-SB-DP1-35-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P08-161-BR
Sample Location: P08
Sampled By: JU/JL
C.O.C. No.: BR-043

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-03-97 Time: 1915 Method: DPT Monitor Reading (ppm): 0.0	52 to 56	Grey	Fine, medium, and course grained poorly sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P08-15-BR
Sample Location: P08
Sampled By: JW/JL
C.O.C. No.: BR-043

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-03-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1950	5 6 to 60	Grey	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-01 BR
Sample Location: AOC-070
Sampled By: TR ~~JW~~/JL
C.O.C. No.: LTC-033
BR-043

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-03-97 Time: 2250 Method: DPT Monitor Reading (ppm): 0.0	0' to 4'	Light Brown to Black	fine grained sand grading into a sandy silt - fill material

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC } BR
NAPL - UV Light Test	4 oz. Jar	✓	Field Test } BR
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

LAUCKS METALS + CYANIDE

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-02&BR
Sample Location: AOC-070
Sampled By: TR/JL
C.O.C. No.: LTL-033
BR-043

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-03-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2255	4'to 8'	Light Brown and Brown	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-03 & BL
Sample Location: AOC-070
Sampled By: TR / JL
C.O.C. No.: JL-033
BL-043

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-03-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2315	8' to 12'	Light Brown & Tan	fine, medium, course, and very course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-04-BR
Sample Location: AOC-070
Sampled By: SW/SL
C.O.C. No.: BR-043

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-03-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2330	12 to 16	Light Brown	fine, medium, course, very course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-05-BR
Sample Location: AOC-070
Sampled By: JW/JL
C.O.C. No.: BR-044

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	16' to 20'	Light Brown	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-06-01
Sample Location: A02-070
Sampled By: JC/KC
C.O.C. No.: BL-044

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1730	20'to24'	Grey	fine, medium and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-07-BR
Sample Location: AOC-070
Sampled By: JW/BL
C.O.C. No.: BR-044

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-04-97 Time: 1750 Method: DPT Monitor Reading (ppm): 0.0	24' to 28'	Grey	fine and medium grained sand better sorted some coarse grains

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-36-BR

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-08-02
Sample Location: AOC 070
Sampled By: JW/JR
C.O.C. No.: B2-044

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1315	28 to 32'	Olive to Grey	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-09-BR
Sample Location: AOC 070
Sampled By: JW/SL
C.O.C. No.: BR-044

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1010	32'to 36'	Olive to Grey	fine, medium, and course grained poorly sorted sand.
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-10-BK
Sample Location: AOC-070
Sampled By: JL/JL
C.O.C. No.: BR-044

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2050	36'to 40'	Grey	Fine, medium, coarse, very coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-11-BR
Sample Location: AOC 070
Sampled By: JW/BL
C.O.C. No.: BR-044

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 04-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2115	40'to44'	Olive to Grey	fine medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0-0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-12-BR
Sample Location: AOC 070
Sampled By: JW/JC
C.O.C. No.: BL-644

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2145	44 to 48'	Grey	Fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-13-DR
Sample Location: AOC-070
Sampled By: JW/JL
C.O.C. No.: BR-044

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-04-97 Time: 2220 Method: DPT Monitor Reading (ppm): 0.0	48' to 52'	Grey	~~fine, medium, and coarse~~ fine and medium grained sand better sorting w/ large gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD	Duplicate ID No.:
See note.	

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 070-14-BR
Sample Location: AOC-076
Sampled By: JRJR
C.O.C. No.: BR-044

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 04-04-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1250	5.7 to 56'	Grey	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-37-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-070-15-BR
Sample Location: AOC-070
Sampled By: JW/SL
C.O.C. No.: BR-044

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2325	5660	Grey	fine, medium and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P10-01(BR)
Sample Location: P10
Sampled By: TR/JL
C.O.C. No.: LTL-035
BR-046

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: ~~1650 hrs~~ 09-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	0 to 4'	Light Brown	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:
	003-SB-DP1-06 (Laucks)

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P10-02(IX)
Sample Location: P10
Sampled By: TR/JL
C.O.C. No.: LTC-035 BR-046

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	4' to 8'	Slight Black to Light Brown and Tan layers	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P10-03'M
Sample Location: P10
Sampled By: TRL
C.O.C. No.: LTC-035
BR-046

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1715	8' to 12'	Light Brown to Tan	Fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P10-04-BR
Sample Location: DRO
Sampled By: TR/SL
C.O.C. No.: ~~EFC-035~~ TR
BR-046

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1725	12 to 16'	Tan to Light Brown to a Brown to Dark Brown	Fine, medium, and coarse grained poorly sorted sand grading into a fine grained sandy silt grading into a fatty clay w/slight sand - high plasicity
Method: DPT			
Monitor Reading (ppm): 1.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD (See note.)

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P10-05-BN
Sample Location: P10
Sampled By: JH/JC
C.O.C. No.: BR-046

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1740	~~16 to 20'~~ 16-20'	Dark Brown	Fatty clay - w/ high plasicity slight sand and trace gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- P10-06-02
Sample Location: P10
Sampled By: JW BC
C.O.C. No.: BL-046

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1800	20'to 24'	Dark Brown	fatty clay w/high plasicity slight smell
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P10-07-BR
Sample Location: P10
Sampled By: SC/SL
C.O.C. No.: BL-046

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1820	24 to 28'	Dark Brown	Fatty clay w/high plasicity slight sand w/different grain sizes
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P10-08-01
Sample Location: P10
Sampled By: JWL
C.O.C. No.: BR-046

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1840	28' to 32'	Dark Brown	Silty Clay
Method: DPT		Brown	clayey sand
Monitor Reading (ppm): 40.0		Brownish Grey	fine grained sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P10-09-01
Sample Location: P10
Sampled By: SW/JL
C.O.C. No.: BR-046

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1920	32' to 36'	Grey	fine, medium and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm) 10.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-OP1-38-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P10-36-DR
Sample Location: P10
Sampled By: JW/JL
C.O.C. No.: BR-046

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2225	36' to 40'	Grey	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 15.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Liner jammed and had to pound sample out of macro core. Collected UV in bag, shook it and screen the head space reading of -599.0 ppm

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-A04-01 i BR
Sample Location: A04
Sampled By: TR/JL
C.O.C. No.: LTL-035
BL-047

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1730	0' to 4'	Light Brown Black Light Tan	fine grained well sated sand - silty sand - fill material - fine grained silty sand
Method: DPT			
Monitor Reading (ppm): 0.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P04-02 / BR
Sample Location: ~~A05~~ P04
Sampled By: TD/JL
C.O.C. No.: LTL-035
BR-047

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1745	4' to 8'	Dark Tan	fine grained well sorted sand grading into a fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P04-03(BR
Sample Location: P04
Sampled By: JRKL
C.O.C. No.: LTC-035
BR-047

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1755	8' to 12'	Brown	fine, medium, and course grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P04-04-BR
Sample Location: P04
Sampled By: TR/JL
C.O.C. No.: BR-047

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1805	12' to 16'	Brown	fine, medium, and coarse grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	003-SB-P04-05-BR
Project No.:	6966	Sample Location:	P04
		Sampled By:	JDJL
		C.O.C. No.:	BR-047

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-06-97 Time: 1830 Method: DPT Monitor Reading (ppm): 0.0	16' to 20'	Brown to Olive/Grey	fine, medium, and course grained poorly sorted sand grading into a fine grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD	Duplicate ID No.:
See note.	

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P04-06-BR
Sample Location: P04
Sampled By: JW/JL
C.O.C. No.: BR-047

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1845	20'b24'	Grey	medium, coarse and very coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-004-07-BL
Sample Location: 004
Sampled By: —
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1920	24'-28' No Recovery		
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-004-08-DR
Sample Location: 004
Sampled By: —
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2120	28 & 32	No Recovery	
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P04-09-M
Sample Location: P04
Sampled By: ~~[illegible]~~ NA
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: NA	32 to 36	No Recovery	
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P04-10-BR
Sample Location: P04
Sampled By: TA ~~JL/JL~~ NA
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-07-47	36 to 40	No Recovery	
Time: NA			
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-POL-11-BR
Sample Location: PBH
Sampled By: JC/JC
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: NA	40 to 44	No Recovery	
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-004-12-BR
Sample Location: P04
Sampled By: NA
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: NA	44 to 48	No Recovery	
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-033-01CBIL
Sample Location: ~~FRIAB~~ MW-033
Sampled By: TA IR
C.O.C. No.: LTC-036
BR-048

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1940	0'to 4'	Tan	fine, medium, and course grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-033-02 (BR)
Sample Location: AOC-033
Sampled By: TR/JL
C.O.C. No.: LTL-036 BR-048

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 04-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1950	4' to 8'	Light Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-033-03 BR
Sample Location: AOC-033
Sampled By: TRM
C.O.C. No.: LTC-036
BR-049

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 04-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2030	8' to 12'	Light Brown	Fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-033-04-BR
Sample Location: AOC-033
Sampled By: JW/JL
C.O.C. No.: BR-049

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-07-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1640	12' to 16'	Light Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0-0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓ (JJ)	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓ (JL)	Laucks
TAL Metals / Cyanide	8oz. Jar	✓ (JL)	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-~~07~~ 39-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-011-01BR
Sample Location: 011
Sampled By: TR/SC
C.O.C. No.: BR-049 LTL-037

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2050	0' to 4'	Brown to Black	sands silt silty sand - fill material
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

LAUCKS TESTING LAB

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
~~See note.~~

Duplicate ID No.: 003-SB-DP1-07

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P11-02 (BR)
Sample Location: P11
Sampled By: TR/JC
C.O.C. No.: BR-049
LTL-037

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2100	4'-8'	Light Brown	fine, medium, and course grained poorly sorted sand w/ some gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P11-03iBR
Sample Location: P11
Sampled By: TR/JC
C.O.C. No.: BR-049
LTL-037

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2110	8' to 12'	Light Brown	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 00			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Page 4U of ___

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- P11-04-BR
Sample Location: P11
Sampled By: JR/JL
C.O.C. No.: BR-049

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~2116~~ 2115	12'to 16'	Light Brown	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P11-05-BR
Sample Location: P11
Sampled By: TR/JL
C.O.C. No.: BR-049

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2130	16 to 20'	Grey	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

(MS/MSD) See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-011-06-BR
Sample Location: P11
Sampled By: JW/JC
C.O.C. No.: BR-049

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-08-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2210	20 to 24'	Grey	fine, medium and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SD-DP1-40-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P11-07-BR
Sample Location: P11
Sampled By: JW/JC
C.O.C. No.: BR-050

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1615	24 to 28	Grey	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P11-08-0K
Sample Location: P11
Sampled By: JW/JC
C.O.C. No.: BR-050

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1635	28 to 32	Grey	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - J

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P11-09-BR
Sample Location: P11
Sampled By: JW/JL
C.O.C. No.: BR050

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1850	32h36	Grey	fine, medium, and course grained poorly sorted sand w/ large gravel
Method: DPT			
Monitor Reading (ppm): 0.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
-	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

(MS/MSD) See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P11-10-BR
Sample Location: P11
Sampled By: JW/RL
C.O.C. No.: BR-050

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1915	36'640'	Grey	fine, medium, and coarse grained poorly sorted sand w/peat, large gravel, pebble
Method: DPT			
Monitor Reading (ppm): 1.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P11-10-DR
Sample Location: P11
Sampled By: JW/JC
C.O.C. No.: B2.050

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-09-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1945	40 to 44'	Grey to Dark Grey	fine medium and coarse grained sand w/ some coal and pebbles grading into a fatty clay some/coarse sand
Method: DPT			
Monitor Reading (ppm): 7.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-029-0104R
Sample Location: SBC-029
Sampled By: TR/JL
C.O.C. No.: LTC-039
BR-051

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-15-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1835	0 to 4'	Brown	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-029-02 BM
Sample Location: AOC-029
Sampled By: TR BC
C.O.C. No.: LTC-039 BC-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-15-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1340	4 to 8'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC } BR
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-029-03-01
Sample Location: AOC-029
Sampled By: TRHL
C.O.C. No.: BR-051

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-15-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1900	8' to 10'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Liner got jammed, as a result, had to pound sample out of the macro core, Not enough sample to collect Laucks.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-028-01/184
Sample Location: AOC-028
Sampled By: JH/L
C.O.C. No.: LTC - 040
BR - 052

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-16-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	0 to 4	Tan	fine, medium, and course grained poorly sorted sand w/ concrete, size gravel
Method: DPT			
Monitor Reading (ppm): 11.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): (+) or -

Diesel smell

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-028-0204
Sample Location: AOC-028
Sampled By: TRH
C.O.C. No.: LTC-040
BR-052

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-16-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1720	4 to 8'	Brown	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 9.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): (+) or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-028-03 (BR)
Sample Location: AOC-028
Sampled By: JR BL
C.O.C. No.: LTL-040 BR-052

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-16-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1730	8 to 12'	Brown	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-028-04-BR
Sample Location: AOC-028
Sampled By: JWM
C.O.C. No.: ~~LTC~~ (TK) BR-052

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-16-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1900	12' to 16'	Brown	Fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 2.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-028-05-BR
Sample Location: AOC-028
Sampled By: JLTC
C.O.C. No.: BR-052

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-16-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1925	16 to 20	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 1.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:
	003-SB-DP1-41-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-028-06-BR
Sample Location: AOC-028
Sampled By: JW/JL
C.O.C. No.: BR-052

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-16-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1950	20 to 24'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD (See note.)

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-028-07-BR
Sample Location: AOC-028
Sampled By: JW/JL
C.O.C. No.: BR-052

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-16-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2240	24'to 28'	Brown	fine grained well sorted sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-B05-01 (BR)
Sample Location: B05
Sampled By: JW/JL
C.O.C. No.: LTC-041
BR-053

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-17-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	0 to 4'	Brown	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Laucks Metals + CN^-

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P05-02EBR
Sample Location: P05
Sampled By: JW/JL
C.O.C. No.: LTL-041
BR-053

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-17-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1655	4' to 8'	Brown	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P05-03 BR
Sample Location: P05
Sampled By: SW/JC
C.O.C. No.: LTL-041 BR-053

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-17-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1705	8' to 12'	Brown	fine grained sand
Method: DPT			
Monitor Reading (ppm): 0.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P05-04-BR
Sample Location: P05
Sampled By: JWJL
C.O.C. No.: BR-053

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-17-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1720	12'to16'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 2.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-P05-05-BR
Sample Location: P05
Sampled By: JWJL
C.O.C. No.: BR-053

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-17-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1820	16' to 20'	Brown	fine grained well sated sand
Method: DPT			
Monitor Reading (ppm): 3.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-42-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-071-0102
Sample Location: AOC-071
Sampled By: SW/JC
C.O.C. No.: LTL-042
BR-054

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1220	0' to 4'	Black to Brown	Silty Sand grading into a fine medium and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-071-02 BR
Sample Location: AOC-071
Sampled By: JWR
C.O.C. No.: LTL-042
BR-054

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1230	4' to 8'	Brown	fine, medium, and coarse grained poorly sorted sand grading to a fine and medium grained sand better sorting
Method: DPT			
Monitor Reading (ppm): 0.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-071-03'BR
Sample Location: AOC-071
Sampled By: SO/SL
C.O.C. No.: LTL-042
BR-054

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1245	8' to 12'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-071-04-BR
Sample Location: AOC-071
Sampled By: JV/KL
C.O.C. No.: BR-054

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1255	12 to 16'	Brown	Fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-071-05-BR
Sample Location: AOC-071
Sampled By: JL/JW
C.O.C. No.: BR054

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1325	16' to 20'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 4.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-071-06-BR
Sample Location: AOC-071
Sampled By: JWL
C.O.C. No.: BR-054

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1350	20 to 24	Brown	Fine grained well sorted sand grading into a fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 1.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-071-07-BR
Sample Location: AOC-071
Sampled By: JW/JL
C.O.C. No.: BR-054

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1420	24'-28'	Brown w/ slight reddish	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

(MS/MSD) See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-071-08-BR
Sample Location: AOC-071
Sampled By: SW/JL
C.O.C. No.: BR-054

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-18-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1515	28 to 32	Grey slight reddish	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-001-43-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-071-09-BR
Sample Location: AOC-071
Sampled By: JW/JL
C.O.C. No.: BR-054

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1320	32' to 36'	Grey	Fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-071-10-BR
Sample Location: AOC-071
Sampled By: JW/RL
C.O.C. No.: BR-054

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1705	36 to 40'	Grey	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

End boring base upon equipment limitations

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-046-01BR
Sample Location: AOC-046
Sampled By: TR/JL
C.O.C. No.: LTC-043
BC-055

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1650	0 to 4'	Tan	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

ALL LAUCKS PARAMETERS EXCEPT CR+6

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.: 003-SB-DP1-08 (Laucks)

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-046-02 & BR
Sample Location: AOC-046
Sampled By: JW/TL
C.O.C. No.: LTL-043
BR-055

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	4' to 8'	Tan to Dark Tan	fine, medium, and coarse grained sand poorly sorted grading into a fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-046-03 BR
Sample Location: AOC-046
Sampled By: JL/JL
C.O.C. No.: LTL-043
BR-055

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-19-97 Time: 1710 Method: DPT Monitor Reading (ppm): 0.0	8 to 12'	Dark Tan	Fine grained well sorted sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-046-01-BR
Sample Location: AOC 046
Sampled By: JWM
C.O.C. No.: BC-055

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1755	12'to16'	Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-44-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
FB [] QA Sample Type:

Sample ID No.: 003-SB-026-01 (BR)
Sample Location: AOC-026
Sampled By: JW/JL
C.O.C. No.: LTL-043
BR-056

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-20-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1400	0'64'	~~Brown~~ Tan	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 7.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-026-02 EBR
Sample Location: AOC-026
Sampled By: JW/JL
C.O.C. No.: LTC-043
BR-056

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-20-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1410	4' to 8'	Tan Black Light Brown	fine grained well sorted sand 3" silty sand fine grained well sorted sand - PID highest
Method: DPT			
Monitor Reading (ppm): 20.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Chemical odor

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-026-03-BR
Sample Location: AOC-026
Sampled By: JW/JL
C.O.C. No.: LTC-043 BR-056

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-20-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1425	8' to 12'	Light Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 760.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one) (+) or (-) slight fluorescent

Strong chemical odor - old paint thinner

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-026-04-BR
Sample Location: AOC-026
Sampled By: SW/TC
C.O.C. No.: B2056

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-20-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1450	12 to 16'	Tan	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 1026.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): (+) or -

MED → Strongly Fluorescent

Hot

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-026-05-00
Sample Location: A0L-026
Sampled By: JW/JC
C.O.C. No.: BR-056

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-20-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1525	16' to 20'	Tan, Dark Brown, Brown	fine medium and coarse grained poorly sorted sand; fatty slight sandy clay; fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 3860.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Strongly Florescent

Hot

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-026-06-BK
Sample Location: AOC-026
Sampled By: JW/SC
C.O.C. No.: BK-056

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-20-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1600	20624	Grey	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 3833.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one) (+) or - Strongly Florescent Hot

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-45-BK

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-026-07-BR
Sample Location: AOC-026
Sampled By: JW/SC
C.O.C. No.: BR-056

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-20-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1720	24 to 28	Gray	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): ~~3833~~ 3833			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one) (+) or - Strongly Floresecent Hot

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-026-08-BR
Sample Location: BOL 026
Sampled By: SW/JL
C.O.C. No.: BR-056

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-20-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1800	28 to 32	Grey	fine grained wellsorted sand
Method: DPT			
Monitor Reading (ppm): 3833			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): (+) or - Strongly Florescent

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-026-09-09
Sample Location: AOC-026
Sampled By: JW/JC
C.O.C. No.: BR-056

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-30-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2040	32 to 36'	Grey	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 136.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-026-0-BR
Sample Location: AOC-026
Sampled By: JW/JC
C.O.C. No.: BR-056

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-20-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2120	36 to 40'	Grey	fine, medium, and coarse grained poorly sorted sand w/ gravel
Method: DPT			
Monitor Reading (ppm): 18.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	~~003-SB-026-11-BR~~ 003-SB-026-11-BR (TR)
Project No.:	6966	Sample Location:	AOC-026
		Sampled By:	JW/JC
		C.O.C. No.:	NA

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-20-97 Time: 2155 Method: DPT Monitor Reading (ppm):	40 to 44	No Recovery	

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

1" of sample in liner - not enough representative sample to collect. ~~Long~~ medium gravel

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-026-12(D)-RR
Sample Location: AOC-026
Sampled By: SW/FL
C.O.C. No.: NA

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-30-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2246	44'to48'	No Recovery	
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓ (D)	Field GC
NAPL - UV Light Test	4 oz. Jar	✓ (D)	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-01(OR
Sample Location: AOC-068
Sampled By: JW/JL
C.O.C. No.: LTC-043
BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1440	0' to 4'	Brown Light Brown	fine, medium and course grained poorly sorted sand sand clay lens
Method: DPT			
Monitor Reading (ppm): 3.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-02 (OR)
Sample Location: AOC-068
Sampled By: JW/JL
C.O.C. No.: LTL-043
BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1450	4 to 8'	Brown to Tan	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 2.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-03EBR
Sample Location: AOC-068
Sampled By: JW/JL
C.O.C. No.: LTC-043
BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1500	8' to 12'	Tan	fine, medium, and course grained poorly sorted sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 1.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-04-BR
Sample Location: AOC-068
Sampled By: JW/JC
C.O.C. No.: BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1510	12 to 16'	Tan	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-05-BR
Sample Location: AOC-068
Sampled By: JW/JL
C.O.C. No.: BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1525	16 to 20'	Tan	fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 1.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Dalton

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-06-BR
Sample Location: AOC-68
Sampled By: JW/JL
C.O.C. No.: BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/2/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1545	20-24'	Grey	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 2.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-46-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-07-BR
Sample Location: AOC-068
Sampled By: JW/SC
C.O.C. No.: BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1610	24'-28'	Grey	Fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 3.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-08-01
Sample Location: AOC-068
Sampled By: JW/JL
C.O.C. No.: BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1635	28 to 32	Grey	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 0.6			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-09-BR
Sample Location: AOC-068
Sampled By: JW/JC
C.O.C. No.: BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1900	32'h36'	Grey	fine, medium, and coarse grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 2.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-10-BR
Sample Location: AOC-068
Sampled By: JW/[illegible]
C.O.C. No.: BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-21-97 Time: 1940 Method: DPT Monitor Reading (ppm): 0.0	36 to 40'	Grey	fine, medium, and course/very course grained poorly sorted sand w/ gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-[illegible]-BR
Sample Location: AOC-068
Sampled By: JL/SL
C.O.C. No.: BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2020	40.44	Grey	fine, medium, course, and very course grained poorly sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-47-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-068-B-M
Sample Location: AOC-068
Sampled By: DJL
C.O.C. No.: BL-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-21-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2050	44'to 48'	Grey	Fine, medium, and course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-015-01 BR
Sample Location: AOC-015
Sampled By: JW/JL
C.O.C. No.: LTC-045
BL-058

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1710	0 to 4'	Tan	fine, medium, and coarse grained poorly sorted sand to 2' grading into a fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 2.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

LAUCKS ON METALS, CN, TOC, Cr^{+6} & STOP TESTS

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:
003-SB-DP1-09 (Laucks)

Signature(s):
JW/JL

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-015-02 (BR)
Sample Location: AOC-015
Sampled By: JW/JC
C.O.C. No.: LTC-045
BR-058

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1720	4'to8'	Tan	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

2 3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-015-03 (BR)
Sample Location: AOC-015
Sampled By: JW/JL
C.O.C. No.: LTL-045 BR-056

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1725	8' to 12'	Tan	fine grained well sorted sand grading into a fine, medium, and coarse grained sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-015-04/BR
Sample Location: AOC-015
Sampled By: JW/TL
C.O.C. No.: BR-058

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-22-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1740	12' to 16'	Tan to Dark Brown	fine, medium and course grained poorly sorted sand w/gravel grading into a fatty slight sandy clay
Method: DPT			
Monitor Reading (ppm): 0.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): John G Wilson

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 015-05-BL
Sample Location: AOC 015
Sampled By: JL/JW
C.O.C. No.: BR-058

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-22-97 Time: 1805 Method: DPT Monitor Reading (ppm): 5.8	16' to 20'	Dark Brown to Dark Brown	Slight sand clay fine, medium, and course grained p.s. sand w/ large gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD	Duplicate ID No.:
See note.	

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-015-06-09
Sample Location: AOC-015
Sampled By: JW/JL
C.O.C. No.: BC-058

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1850	20'to24'	Brown	Alternating layers of fine, medium, and coarse grained p.s. sand and fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

Ended boring due to the limitations of the equipment.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-047-011BR
Sample Location: AOC-047
Sampled By: JW/JL
C.O.C. No.: LTL-046 BR-059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1640	0 to 4'	Dark Brown	fine, medium, and course grained poorly sorted slight silty sand
Method: DPT			
Monitor Reading (ppm): 4.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-047-02 DR
Sample Location: AOC-047
Sampled By: JWC
C.O.C. No.: CTC-046
BR-059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc)
Time: 1645	4 to 8'	Light Brown	Medium grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 2.6			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-047-03 & BR
Sample Location: AOC-047
Sampled By: JW/JC
C.O.C. No.: LTC-046
BR-059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1655	8' to 12'	Light Brown	medium grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 1.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓ (JO)	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-047-04-BR
Sample Location: A02-047
Sampled By: JVM
C.O.C. No.: BR-059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	12'to16'	Light Brown	~~Light Brown~~ Medium grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 1.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-047-05-BR
Sample Location: AOC 047
Sampled By: JL/JL
C.O.C. No.: BR-059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-23-97 Time: 1710 Method: DPT Monitor Reading (ppm): 1.0	16' to 20'	Light Brown to Grey-in H_2O	fine grained well sorted sand to fine, medium, and course grained p.s. sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-047-06-B9
Sample Location: SBC-047
Sampled By: JWTC
C.O.C. No.: BR-059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1720	20'b24'	Grey	f, me, c grained P.O Sand
Method: DPT			
Monitor Reading (ppm): 3.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 047-07-01
Sample Location: AOC-047
Sampled By: JVAC
C.O.C. No.: ~~TVBR-059~~ NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1735	24'-28'	No Recovery	
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-047-08-BR
Sample Location: FOL-047
Sampled By: JW/TL
C.O.C. No.: BR-059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-23-97 Time: 1800 Method: DPT Monitor Reading (ppm): 2.3	28'632'	Grey	fine, medium, and coarse grained p.s. sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD	Duplicate ID No.:
See note.	

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-07707-MN
Sample Location: B02-047
Sampled By: TW/AL
C.O.C. No.: B2059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1955	32'-36'	Grey	f, m, c, very course grained P.S. sand w/gravel
Method: DPT			
Monitor Reading (ppm): 1.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:
	003-SD-MN1-48-BK

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-047-10-09
Sample Location: AOC-047
Sampled By: JU/IC
C.O.C. No.: BR-059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-23-97 Time: 2015 Method: DPT Monitor Reading (ppm): 5.2	36' to 40'	Grey	fine, c, vc grained p.s. sand w/gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-0774-BR
Sample Location: AOC 97
Sampled By: JW/JL
C.O.C. No.: BL-059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2040	40'to44'	Grey	f, m, c, vc grained P.S sand
Method: DPT			
Monitor Reading (ppm): 1.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-047-12-BR
Sample Location: AOC-047
Sampled By: JW/JL
C.O.C. No.: BR-059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2130	44'to 48'	Grey	fine, c, very course grained p.S sand grading into a fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 1.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-047-13-BR
Sample Location: BOZ-047
Sampled By: JW/TL
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1615	48-52	Grey	fine grained well sorted sand w/gravel
Method: DPT			
Monitor Reading (ppm): 4.7 in bkd space			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

No field GC sample collected due to not representation of sample and time factor involved with collection

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-047-14-M1
Sample Location: AOC-047
Sampled By: TWM
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1635	52 b 56	No Recovery	
Method: DPT			
Monitor Reading (ppm): 00			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-050-01 & BR
Sample Location: AOC-050
Sampled By: JWM
C.O.C. No.: LTL-047
BR-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1815	0'64'	Brown to a Dark Brown	fine grained silty sand
Method: DPT			
Monitor Reading (ppm): 1.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals	✓	Laucks
Eh*	Collected in jar with metals	✓	Laucks
Ferrous Iron*	Collected in jar with metals	✓	Laucks
Sulfides*	Collected in jar with metals	✓	Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

LAUCKS HEX. Chrom. & SPOT TEST ONLY

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP1-10

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-050-02 (BR)
Sample Location: AOC-050
Sampled By: JMC
C.O.C. No.: LTC-047 BR-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1825	4 to 8'	Light Brown	fine grained well sorted sand grading into a medium grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-050-03 BR
Sample Location: AOC-050
Sampled By: JW/JL
C.O.C. No.: 472-047
BR-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1835	8 to 12'	Light Brown	fine and medium grained sand w/gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-050-04-BR
Sample Location: AOC-050
Sampled By: JW/SL
C.O.C. No.: BR-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1850	12' to 16'	Light Brown	Fine, medium, and coarse grained poorly sorted sand w/pea gravel
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-050-05-BR
Sample Location: AOC-050
Sampled By: JW/JL
C.O.C. No.: BR-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1900	16' to 20'	Light Brown	fine grained well sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

(MS/MSD) See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-050-06-BR
Sample Location: AOC-050
Sampled By: JWAC
C.O.C. No.: BR-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-24 Time: 1925 Method: DPT Monitor Reading (ppm): 0.0	20 to 24'	Grey	fine grained well sorted sand grading into a fine, med, coarse grained p.s. sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.: 003-SB-DP1-49-BR

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-050-07-BR
Sample Location: A01050
Sampled By: JWM
C.O.C. No.: BR-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1950	24'-28'	Grey	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 050-08-M
Sample Location: BOC-050
Sampled By: SW/TC
C.O.C. No.: BR-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2020	28-32	Grey	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-050-09-BR
Sample Location: AOC-050
Sampled By: JW/JL
C.O.C. No.: BR-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2215	32' to 36'	Grey	fine, medium, and course, very course grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-050-10-SA
Sample Location: AOC-050
Sampled By: JWH
C.O.C. No.: BR-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0905	36 to 40	Grey	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-050-12-BR
Sample Location: NOC 650
Sampled By: JT / JC
C.O.C. No.: BR-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2340	40644	Grey	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-050 -BR
Sample Location: AOC-050
Sampled By: JWH
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0025	44'48'	Grey	fine, medium, and coarse grained P.S sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-039-01'BR
Sample Location: BOC-039
Sampled By: JW/BL
C.O.C. No.: LTL-048
BR-062

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1645	0' to 4'	Brown	fine, medium, and coarse grained P.S. silty sand grading to a fine grained P.S. sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-039-02:039
Sample Location: AOC 039
Sampled By: TC/JL
C.O.C. No.: LTL-048
BR-062

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-25-97 Time: 1650 Method: DPT Monitor Reading (ppm): 4.6	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	4 to 8'	Brown	Fine, medium, and coarse grained silty sand w/slight pea size gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

} BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-039-03 BR
Sample Location: AOC 039
Sampled By: JW/JL
C.O.C. No.: LTL-048 BR-062

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1700	8 to 12'	Brown	Fine and medium grained silty sand - native at base
Method: DPT			
Monitor Reading (ppm): 1.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA .	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

3 BR

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-039-04-BL
Sample Location: AOC-039
Sampled By: SW/JL
C.O.C. No.: BR-062

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1710	12' to 16'	Light Brown	fine and medium grained sand
Method: DPT			
Monitor Reading (ppm): 1.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 037-05-BR
Sample Location: AOC-039
Sampled By: JWNL
C.O.C. No.: BR-062

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1735	16 to 20'	Light Brown to Grey in H_2O	fine grained well sorted sand grading in to a fine and medium grained P.S sand
Method: DPT			
Monitor Reading (ppm): 1.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-039-06-DN
Sample Location: AOC-039
Sampled By: JW/JL
C.O.C. No.: BR-062

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1800	20'to24'	Grey	fine, medium, and coarse grained poorly sorted sand
Method: DPT			
Monitor Reading (ppm): 1.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-039-07-BR
Sample Location: AOC-039
Sampled By: JW/K
C.O.C. No.: BR-062

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1830	24&28	Grey	fine, med, and coarse grained P.S sand
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-08-BR
Sample Location: AOZ-039
Sampled By: [illegible]
C.O.C. No.: BR-062

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 09-25-97 Time: 1845 Method: DPT Monitor Reading (ppm): 0.0	28 to 32	Grey	fi, me, cans grained p-S Sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar	✓	Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD	Duplicate ID No.:
See note.	

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-039-09-97
Sample Location: AOC 039
Sampled By: FOL
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2050	32 to 36	No Recovery	
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

sample washed out

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-037-10-01
Sample Location: AOC-039
Sampled By: JW/JL
C.O.C. No.: —

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 09-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2145	36 to 40	No	Recovery
Method: DPT			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-039-11-01
Sample Location: AOC-039
Sampled By: JW/JC
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: ~~2220~~ 09-25-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2220	~~40~~ ~~40~~ to 44 (TD)	No Recovery	
Method: DPT			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Sample washed out - due to 3 consecutive no recoverys end boring

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD . See note.	Duplicate ID No.:

Signature(s):

APPENDIX A.1

SAMPLE LOG SHEETS FOR SOILS - PHASE II

SOIL & SEDIMENT SAMPLE LOG SHEET

003-SB-30D-01

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB-MW -
Sample Location: MS 30D
Sampled By: TR/JL
C.O.C. No.: 00401

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 10-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1055	0-10	light brown	Sand, fine-grained, with gravel up to 1" diameter, slightly moist
Method: DPT Rotosonic			
Monitor Reading (ppm): 51			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	✓	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MS/MSD

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

TR

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: ~~003-SB-MW~~ 003-SB 30D-02
Sample Location: MS-30D
Sampled By: TR/JL
C.O.C. No.: 00401

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10/23/97 Time: 1110 Method: DPT Rt 8.3 (TR) Monitor Reading (ppm): 8.3	10-20	light brown	Sand, fine-grained, slightly moist

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	✓	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: ~~003-SB-MW~~ 003-SB-B00-03
Sample Location: 015-30D
Sampled By: TA/JL
C.O.C. No.: 00401

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 10-23-07	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1115	20-30	light brown	Sand, fine-grained, wet
Method: ~~IDPT~~ Rotosonic			
Monitor Reading (ppm): 1.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	✓	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB-30D-04 ~~003-SB-MW~~ TZ
Sample Location: GIS 30
Sampled By: TZ / BH
C.O.C. No.: OCCC1

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 10-23-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~1740	35-40	light to medium brown	Sand, fine to very fine grained, wet
Method: ~~DPT~~ Rotosonic			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	✓	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-SB-30D-03

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: ~~003-SB-MW~~ (FR)
Sample Location: MS 30D
Sampled By: BH/JL
C.O.C. No.: 00401

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 10-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2008	40-50	medium brown	Sand, fine to very fine grained, moderately sorted
Method: ~~DPT~~ Retosonic			
Monitor Reading (ppm): 0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	✓	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Kopecki

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: ~~003-SB-MW~~ 003-SB-30D-06
Sample Location: MS-30D
Sampled By: BH/VL
C.O.C. No.: 00401

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10-24-97 Time: 1028 Method: ~~DPT~~ Rotosonic Monitor Reading (ppm): 0	50-60	medium brown	sand, fine to very fine grained, moderately well sorted

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	✓	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: ~~003-SB-MW~~ 003-SB-30D-07
Sample Location: MS-30D
Sampled By: BH/JL
C.O.C. No.: 00401

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 10-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1333	60-70	brown, variegated	Gravel, up to 1" diameter, coarse sand, poorly sorted
Method: ~~DPT~~ Cutosonic			
Monitor Reading (ppm): 1.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	✓	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: ~~003-SB-MW~~ 003-SB-302D-OM
Sample Location: MS 30D
Sampled By: BH/JL
C.O.C. No.: 00701

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 10-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1352	70-80	brown	Gravel, up to 3" diameter, with v.c. sand, poorly sorted, subrounded to subangular
Method: ~~DPT~~ Rotosonic			
Monitor Reading (ppm): 2.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	✓	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: ~~003-SB-MW~~ 003-SB-30D-09 TR
Sample Location: MS-30D
Sampled By: JL/BH
C.O.C. No.: 00402

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 10-24-97 Time: 1427 Method: ~~DPT~~ Cotoscope Monitor Reading (ppm): 11	80-90	maroon, dark gray, brown	Gravel upto 5" diameter, poorly sorted, subrounded to subangular

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	✓	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-MW(TE) 003-SB-30D-10
Sample Location: MS-30D
Sampled By: BH/VL
C.O.C. No.: 00402

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 10-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1500	90-100	brown, maroon, dark gray	Gravel, up to 5" diameter, poorly sorted, subrounded to subangular
Method: ~~DPT~~ Rotosonic			
Monitor Reading (ppm): 0.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	✓	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	✓	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Tej Uppal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-310-01
Sample Location: MS-310
Sampled By: JL/TL
C.O.C. No.: 00404

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1022	0-10	Tan	Sand, fine to medium grained, w/ granules - pebbles up 1½", dry
Method: Rotosonic Drilling			
Monitor Reading (ppm): 0.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 31D -02
Sample Location: MS- 31D
Sampled By: JL/TC
C.O.C. No.: 66404

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1823	10-20	Tan	Sand, fine to coarse, w/ pebbles up to 1", dry
Method: Rotosonic Drilling			
Monitor Reading (ppm): 0.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 31D-03
Sample Location: MS- 31'
Sampled By: JL/TK-
C.O.C. No.: 00404

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: ~~1534~~ 1839	20-30	Tan	Sand, fine to coarse, w/ granules up to 1", wet.
Method: Rotosonic Drilling			
Monitor Reading (ppm): 0.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-31D-04
Sample Location: MS-31D
Sampled By: JL / TR
C.O.C. No.: 00404

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 11-13-97 Time: 1950 Method: Rotosonic Drilling Monitor Reading (ppm): 18.3	30-40	Tan to light gray	Sand, coarse to very coarse w/ pebbles up to 1", wet

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or ⊖

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s): Terry Rogal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-3[illegible]-05
Sample Location: MS- 3[illegible]2
Sampled By: JL / TR
C.O.C. No.: 00004

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2026	40-50	Tan	Sand, medium to coarse, w/ minor granules, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 14.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP2-01

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-31D-06
Sample Location: MS-31D
Sampled By: JL/TR
C.O.C. No.: 00404

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 11-13-97 Time: 2117 Method: Rotosonic Drilling Monitor Reading (ppm): 0.0	50-60	Olive gray	Clay, silty sandy, w/ granules up to 1/2" (rare), slightly moist

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-SID-07
Sample Location: MS-SCP
Sampled By: JL/TK
C.O.C. No.: 00404

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2209	60-70	Olive water	Sand, medium to fine, wl pebbles to 1", wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 68			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-310-98
Sample Location: MS- 310
Sampled By: JL / TK
C.O.C. No.: 00407

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-13-97 / Time: 1241 / Method: Rotosonic Drilling / Monitor Reading (ppm): 10.7	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	70 80	Tan	Sand, fine to very fine, wet

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 31D-09
Sample Location: MS- 31D
Sampled By: JL/TK
C.O.C. No.: 00404

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2340	80-90	Tan	Sand, fine to very fine, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 8/			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP2-02

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 31D-10
Sample Location: MS- 31D
Sampled By: JL & TR
C.O.C. No.: C0404

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0111	90-100	Olive	Clay, silty, sandy, slightly moist
Method: Rotosonic Drilling			
Monitor Reading (ppm): 7.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

Ty Lopez

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-31D-11
Sample Location: MS-31D
Sampled By: JL-TK
C.O.C. No.: 00404

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-14-97	Depth	Color	Description (Sand, Silty, Clay, Moisture, etc.)
Time: 0202	100-110	olive to medium brown	clay, silty, sandy w/ cobbles up to 3½"
Method: Rotosonic Drilling			
Monitor Reading (ppm): 39.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-310-12
Sample Location: MS- 310
Sampled By: JL / TK
C.O.C. No.: 00405

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1909	110-120	Medium brown	Sand, fine to coarse, slightly clayey, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 9.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Terry Kozak

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-3D-13
Sample Location: MS-3D
Sampled By: JC/TK
C.O.C. No.: 00405

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-14-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1934	120-125	Brown	Cobbles up to 2", sandy, silty, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 4.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Taylor

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-33D-01
Sample Location: MS-33D
Sampled By: TRIJL
C.O.C. No.: 00406

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1921	0-10'	Tan	Sand, fine to medium, w/ pebbles up to 1", dry
Method: Rotosonic Drilling			
Monitor Reading (ppm): 23.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB-33D-02
Sample Location: MS-33D
Sampled By: TR/JL
C.O.C. No.: 00406

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-12-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1934	10-20	Tan	Sand, fine to very coarse, w/ pebbles, dry
Method: Rotosonic Drilling			
Monitor Reading (ppm): 12.6			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 33D - 03
Sample Location: MS- 33D
Sampled By: TK / JL
C.O.C. No.: 00406

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2044	20-30	Tan	Sand, fine to coarse, w/ pebbles up to 2", poorly sorted, moist to wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 2.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-330-04
Sample Location: MS-330
Sampled By: TR/JL
C.O.C. No.: 00406

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2119	30-40	Tan	Sand, fine to medium, moderately well sorted, rare granules up to ¼", wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 13			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 33D-05
Sample Location: MS-33D
Sampled By: TR/JL
C.O.C. No.: 00406

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2205	40-50	Tan	Sand, medium to fine, moderately well sorted, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 1.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB- 33D 06
Sample Location: MS- 33D
Sampled By: TK/JC
C.O.C. No.: 00407

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1612	5.0 - 6.0	Tan	Sand, medium to fine, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 6.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.: 003-SB-DPL-03

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 33D-07
Sample Location: MS- 33D
Sampled By: TR/JL
C.O.C. No.: 00407

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1654	60-70	Tan to olive	Sand to silt, v.f. sand, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 122.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB- 35D-08
Sample Location: MS-35D
Sampled By: TC/JL
C.O.C. No.: 00407

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1656	70-90	Olive	silt, sandy; clayey in lenses, silt, wet; clay, moist
Method: Rotosonic Drilling			
Monitor Reading (ppm): 280.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MS/MSD

MAP:

Circle if Applicable:

MS/MSD (See note.)

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-33D-09
Sample Location: MS-33D
Sampled By: TR/JL
C.O.C. No.: 00407

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1742	80-90	Olive to Tan	Sand, medium to fine, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 6.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 33D-10
Sample Location: MS- 33D
Sampled By: JL/TK
C.O.C. No.: 00407

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1829	90-100	Tan	Sand, medium to fine, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 1.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-33D-11
Sample Location: MS-33D
Sampled By: TK/JL
C.O.C. No.: 00407

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2021	100-110	Tan	Sand, coarse to very coarse, w/ granules, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 9.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Lopez

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-330-12
Sample Location: MS-330
Sampled By: TR/JL
C.O.C. No.: 00407

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2059	110-120	Tan	Pebbles up to 3" in coarse to very course sand, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 10.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 28D-01
Sample Location: MS- 28D
Sampled By: JL / TK
C.O.C. No.: 20403

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-03-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2415	0'-10'	Tan	Sand, fine to coarse, w/ granules and pebbles up to ½", slightly moist
Method: Rotosonic Drilling			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-25D-02
Sample Location: MS- 25D
Sampled By: NA
C.O.C. No.: NA

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-13-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: —	10-20	NO RECOVERY	
Method: Rotosonic Drilling			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-28D-03
Sample Location: MS-28D
Sampled By: JL/TR
C.O.C. No.: 00408

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-3-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2438	25-30	Tan	Sand, medium to fine, w/ granules and pebbles up to 3", wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 5.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-28D-04
Sample Location: MS-28D
Sampled By: JL/TK
C.O.C. No.: 00408

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-3-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2447	35-40	Tan	Sand, medium to fine, w/ pebbles up to 1½" @ base, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 3.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-28D-05
Sample Location: MS-28D
Sampled By: JL/TK
C.O.C. No.: 00408

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-3-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0136	40-50	Tan	Sand, medium to fine, w/ gravel, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 71			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

TK/JL

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB-22D-06
Sample Location: MS-22D
Sampled By: JL/TK
C.O.C. No.: 00410

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-03-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1605	50-60	Tan	Sand, medium to fine w/ pebbles up to 1½", wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 40			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB- 29D - 07
Sample Location: MS- 29D
Sampled By: JL/TR
C.O.C. No.: 30410

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-3-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1644	60-70	Tan	Sand, medium to fine, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 13.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 28D-08
Sample Location: MS- 28D
Sampled By: JL/TK
C.O.C. No.: 00710

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-3-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1729	70-80	Tan	Sand, medium to fine becoming coarse to medium, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 6.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 28D - 09
Sample Location: MS- 28D
Sampled By: TR/LL
C.O.C. No.: 0541D

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-3-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1821	80-90	Tan	Sand, medium to fine, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 3.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 25D-16
Sample Location: MS- 25D
Sampled By: TR/JL
C.O.C. No.: 00416 ~~Eco4~~ TR

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-3 97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2114	90-100	Tan	Sand, medium to fine, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 2.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP2-04

Signature(s):

TJ Agai

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-25D-11
Sample Location: MS-25D
Sampled By: JL/TC
C.O.C. No.: 00410

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-3-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2141	100 - 110	Tan	Sand, coarse to medium, clayey lenses ~ ½" thick, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 5.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-29D-01
Sample Location: MS-29D
Sampled By: TR/JC
C.O.C. No.: 00411

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-5-97	Depth	Color	Description (Sand, Silty, Clayey, Wet, rock fragments up to 1", Dry, etc.)
Time: 1844	0-10	Medium brown	Sand, silty, clayey, wet rock fragments up to 1", dry
Method: Rotosonic Drilling			
Monitor Reading (ppm): 1.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-29D-02
Sample Location: MS-29D
Sampled By: JL/TK
C.O.C. No.: 00911

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-5-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2240	10-20	Tan	Sand, medium to fine wt granules, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 3.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-29D-03
Sample Location: MS-29D
Sampled By: JL/TC
C.O.C. No.: 00411

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2405	20-30	Tan	Sand, medium to fine w/ granules, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 2.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-29D-04
Sample Location: MS-29D
Sampled By: JL/TK
C.O.C. No.: 00411

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-6-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2419	30-40	Light gray	Sand, coarse to fine w/ granules, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 0.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB-29D-05
Sample Location: MS-29D
Sampled By: JL/TZ
C.O.C. No.: 00411

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2441	40-50	light gray	Sand, coarse to fine w/ pebbles up to 1½" (minor), wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 1.6			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-29D-06
Sample Location: MS-29D
Sampled By: JL/TK
C.O.C. No.: 00411 & 00412 DUP

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1248	50-60	Light gray	Sand, medium to fine w/ pebbles up to 2 1/2", wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 3.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MS/MSD

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:
003-SB-DP2-05

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-29D-07
Sample Location: MS-29D
Sampled By: JL/TK
C.O.C. No.: 00411

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1309	60-70	Light gray	Sand, medium to fine w/ pebbles, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 3.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB-29D-08
Sample Location: MS-29D
Sampled By: JL/TK
C.O.C. No.: 00411

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1335	70-80	Light gray	Sand, coarse to fine wl abundant pebbles, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 17.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 29D - 09
Sample Location: MS- 29D
Sampled By: JL/TK
C.O.C. No.: 00411

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1336	80-90	Light gray	Sand, coarse to fine w/ abundant pebbles, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 3.2			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB-29D-10
Sample Location: MS-29D
Sampled By: JL/TK
C.O.C. No.: 00411

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1549	90-100	Olive gray	Clay, silty w/ granules and pebbles, slightly moist
Method: Rotosonic Drilling			
Monitor Reading (ppm): 2.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 29D-11
Sample Location: MS- 29D
Sampled By: TK/JL
C.O.C. No.: 00411

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1551	100-110	Olive gray	Clay, silty, sandy in spots, w/ pebbles, slightly moist
Method: Rotosonic Drilling			
Monitor Reading (ppm): 1.6			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-29D-12
Sample Location: MS-29D
Sampled By: K/TC
C.O.C. No.: 00411

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12/06/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1724	110-120	Olive gray	Clay, silty, sandy, w/ pebbles, slightly moist
Method: Rotosonic Drilling			
Monitor Reading (ppm): 45			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-29D-13
Sample Location: MS-29D
Sampled By: TR/JL
C.O.C. No.: 00412

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-06-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1759	120-130	Light brown	Sand, medium to fine, wl pebbles up to 2", wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 2.8			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB- 29D - 14
Sample Location: MS- 29D
Sampled By: TK/JL
C.O.C. No.: 00412

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12/06/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1900	130-135	medium brown	Gravel, sandy, subrounded up to 3" diameter clasts, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-32D-01
Sample Location: MS-32D
Sampled By: JL/TK
C.O.C. No.: 00413

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-8-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1731	0-10	Tan	Sand, medium to fine, dry
Method: Rotosonic Drilling			
Monitor Reading (ppm): 0.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-32D-02
Sample Location: MS-32D
Sampled By: JL/TK
C.O.C. No.: 00413 & 00414 ↳ DUP

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 12-8-97 Time: ~~1809~~ 1758 Method: Rotosonic Drilling Monitor Reading (ppm): 6.3	10-20	Tan	Sand, medium to fine, w/ granules, wet

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: 003-SB-DP2.06

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-32D-03
Sample Location: MS-32D
Sampled By: JL / TC
C.O.C. No.: 00413

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-8-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1815	20-30	Light gray	Sand, medium to fine, w/ gravels, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 15.5			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB- 32D - 4
Sample Location: MS- 32D
Sampled By: JL/TK
C.O.C. No.: 00413

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-8-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1830	30 - 40	Light gray	Sand, medium to fine, w/ granules, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 22.1			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

Terry Lopak

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-32D-05
Sample Location: MS-32D
Sampled By: JL/TL
C.O.C. No.: 00413 & 00414 ↳DUP

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-8-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1902	40-50	Light gray	Sand, medium to fine, w/ granules and abundant pebbles up to 3", wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 17.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

Do MS/MSD

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.: 003-SB-DP2-07

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-32D-06
Sample Location: MS-32D
Sampled By: JL/TK
C.O.C. No.: 00413

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12/8/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1917	50-60	Light gray	Sand coarse to fine, wet abundant granules and pebbles up to 2", wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 18.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-32D-07
Sample Location: MS-32D
Sampled By: JL/TK
C.O.C. No.: 00413

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-8-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2043	60-70	olive gray	clay, silty, sandy; w/ pebbles up to 1", slightly moist
Method: Rotosonic Drilling			
Monitor Reading (ppm): 1.7			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-32D-08
Sample Location: MS-32D
Sampled By: TK/JL
C.O.C. No.: 00413

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-8-97 / Time: 2151 / Method: Rotosonic Drilling / Monitor Reading (ppm): 59.0	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	70-80	olive gray	Sand, fine w/ gravules (minor) wet

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-32D-09
Sample Location: MS-32D
Sampled By: TR/JC
C.O.C. No.: 0043

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-8-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2152	80-90	Olive gray	Sand, fine, wl grained (mica), wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 134			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB- 32D-10
Sample Location: MS- 32D
Sampled By: TR/JL
C.O.C. No.: 0043

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-8-97 / Time: 2227 / Method: Rotosonic Drilling / Monitor Reading (ppm): 89	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	90-100	olive gray	Sand, medium to fine, some clay, pebbles up to 2", wet.

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-32D-11
Sample Location: MS-32D
Sampled By: JL/TK
C.O.C. No.: 00413

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-8-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2252	100 - 110	medium gray	Sand, course to medium w/ abundant pebbles, wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 11.3			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 003-SB-32D-12
Sample Location: MS-32D
Sampled By: JL/TK
C.O.C. No.: 00443 & 00414 Dup

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-8-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2316	110-120	Medium gray	Gravel, sandy, subrounded up to 2", wet
Method: Rotosonic Drilling			
Monitor Reading (ppm): 15.9			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.: 003-SB-DP2-08

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-SB-32D-13
Sample Location: MS-32D
Sampled By: JL/TL
C.O.C. No.: 00413

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12/8/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2344	120-125	Tan	Sand, fine to very fine, silt
Method: Rotosonic Drilling			
Monitor Reading (ppm): 3.4			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or (-)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

APPENDIX A.1

SAMPLE LOG SHEETS FOR SOILS - BACKGROUND SAMPLES

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other: Background Sample (GRAB)
[] QA Sample Type:

Sample ID No.: 003-SB-B10-01
Sample Location: BG10
Sampled By: T. Regahn / T. Dickson
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08/13/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0925	0-3		Silty Clay - brown - Some orange fine Sand & Silt (DRY) Trace Organic
Method: DPT (Soil Core)			
Monitor Reading (ppm): N/A			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - N/A

MAP:

On separate sheet by FOL

0-1 light brown Shale
1-2 Silty Clay brown (white/tan)
2-3 Fine Sands

Some rust color Silty and sands were found from 1.5 - 2.5 FEET

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): Ty Regahn

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other: Background Sample (Grab)
[] QA Sample Type:

Sample ID No.: 003-SL-B09-01
Sample Location: BG09
Sampled By: T. Rogahn/T. Dickson
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08/13/97 Time: 0950 Method: DPT (Soil Core) Monitor Reading (ppm): N/A	0-3	Tan – dk. brown	Fine, Med. Sand (Dry)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals	(1) 8oz. ✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

N/A

MAP:

0-1 Brown sand
1-2 Fine sand; Tan, Light brown (LE Dark brown interspersed (0-1-3.0%)
2-3

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): Ty Rogahn

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-BG8-01
Sample Location: BG08
Sampled By: T. Royalty / T. Dickson
C.O.C. No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other: Background Sample (Grab)
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08/13/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1050	0 - 3 Feet	Brown 90%, white tan, Copper 10%	Silty Sand 0-2.5' Fine-Med 2.5-3.0 (Dry)
Method: DPT Soil (Core)			
Monitor Reading (ppm): N/A			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals (1) 8oz	✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - N/A

MAP:

On separate sheet by FOL

0-1 Brown Silty Sand
1-2
2-3 / Last 6" Fine to med grain White, trace, copper

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Royalty

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-BG6-01
Sample Location: BG-06
Sampled By: T. Dickson/T. Roydhn
C.O.C. No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: Background Sample (Grab)

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08/13/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1115			
Method: DPT (Soil Core)	0-3 Feet	Brown	Silty Sand (Dry)
Monitor Reading (ppm): N/A			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals	(1) 8oz. ✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - N/A

MAP:

On separate sheet by FOL

0-1 Brown Silty Sand
1-2
2-3

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-BG07-01
Sample Location: BG07
Sampled By: T. Roghair/T. Dickson
C.O.C. No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other: Background Sample (Grab)
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08/13/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1120	0-3	Dark Brown 90% White tan Some Red 10%	Silty Sand 0.0→2.5 Fine-med Sand 2.5-3.0 (Dry)
Method: DPT (Soil Core)			
Monitor Reading (ppm): N/A			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals] (1) 8oz	✓	Laucks
Hexavalent Chromium	Collected in jar with metals]		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + N/A -

MAP:

On separate sheet by FOL
0-1 Brown Silty Sand (90%)
1-2 / white tan, fine-med Sand
2-3

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Roghair

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-BG4-01
Sample Location: BG-04
Sampled By: T. Rogahn/T. Dickson
C.O.C. No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: Background Sample (Grab)

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08/13/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1155	0-3	Dark Brown	Silty Sand (Dry)
Method: DPT (Soil Core)			
Monitor Reading (ppm): N/A			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals	(1) 8 oz.	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - N/A

MAP:

On separate sheet by FOL

0-1 Dark Brown
1-2 Silty Sand
2-3 ↓

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Rogahn

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-BG05-01
Sample Location: BG05
Sampled By: T. Boyahn / T. Dickson
C.O.C. No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: Background Sample (Grab)

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08/13/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1220			
Method: DPT (Soil Core)			
Monitor Reading (ppm): N/A			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals	8oz (1) ✓	Laucks
Hexavalent Chromium	Collected in jar with metals	+ Duplicate	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + N/A -

MAP:

On separate sheet by FOL

0-1 Brown Silty Sand
1-2 |
2-3 2.5

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.: Collected 003-SB-DP1-01

Signature(s):

Ty Boyahn

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other: Background Sample (Grab)
[] QA Sample Type:

Sample ID No.: 003-SB-R03-01
Sample Location: BG03
Sampled By: T. Rojahn / T. Dickson
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 08/13/97 Time: 1255 Method: DPT (Soil Core) Monitor Reading (ppm): N/A	0-3	Brown	Silty Sand (Dry)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals	(i) 8 oz. ✓	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

N/A

MAP:

On separate sheet by FOL

0-1 Brown Silty Sand
1-2
2-3
↓
3-↓ Just started Clay (dk. bro

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-B01-01
Sample Location: BG-01
Sampled By: T. Dickson/T. Rojahn
C.O.C. No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: Background Sample (Grab)

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08/13/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1315	0-2.5	Brown	Silty Sand (Dry)
Method: DPT** Soil Core			
Monitor Reading (ppm): N/A			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals (1)	8oz	Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - N/A

MAP:

On separate sheet by FOL

0-1 Brown Silty Sand
1-2 ↓
2-2.5
Refusal 2.5'

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Rojahn

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-B02-01
Sample Location: BG02
Sampled By: T. Roginn / T. Dickson
C.O.C. No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other: Background Sample (Grab)
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08/13/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1335	0-3	Brown	Silty Sand (Dry)
Method: DPT (Soil Core)			
Monitor Reading (ppm): N/A			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals] (1) 8oz.		Laucks
Hexavalent Chromium	Collected in jar with metals]		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

N/A

MAP:

On separate sheet by FOL

0-1 Brown Silty Sand
1-2
2-3

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Ty Roginn

APPENDIX A.2

SAMPLE LOG SHEETS FOR GROUNDWATER - TEMPORARY WELLS

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-006-01
Sample Location: AOC-6
Sampled By: TR/JW
C.O.C. No.: LTL-001
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7-09-97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0110	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME								NA

PURGE DATA:

Date: 7-9-97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic Pump	Initial	—	—	—	—	—	—	—
Monitor Reading (ppm): 0.0	1	6.52	1.02	20.5	999	1.83	0.04	Olive
Well Casing Diameter & Material	2	6.79	0.764	18.7	462	1.88	0.03	Olive
Type: 3/4" Ø STEEL	3	6.81	0.94	18.1	743	1.53	0.03	Olive
Total Well Depth (TD): 28.00 (ft)	4	7.07	0.96	18.9	879	2.55	0.03	Olive
Static Water Level (WL): 20.50	5	7.11	0.97	18.8	98	2.95	0.03	SL olive
One Casing Volume(gal/L): 1.30.1								
Start Purge (hrs): 0006								
End Purge (hrs): 0105								
Total Purge Time (min): 49								
Total Vol. Purged (gal/L): 3.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

Collected organic Start @ 0110 + inorganics Stop Collection @ 1431

OBSERVATIONS / NOTES:

Stick up of ~~PVC~~ STEEL above ground level: .84 ft. Filtered TAL Metals Sample ID No.: 003-TW-006 -F1

VERY SLOW RECHARGE ~45MIN/L

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tony Royal

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-P07-01
Sample Location: P07
Sampled By: TR/JWI
C.O.C. No.: GL-003
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7/11/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 0035								
Method: Peristaltic	SL. BRN	6.85	.774	20.7	183	1.83	0.03	NA

PURGE DATA: TIME

	(min) Volume (L)	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Date: 7/11/97								
Method: Peristaltic	Initial	6.79	.780	22.5	999	0.16	0.03	BRN
Monitor Reading (ppm): 0.0	X5	—	—	—	—	—	—	"
Well Casing Diameter & Material	X10	—	—	—	—	—	—	"
Type: STEEL 3/4" ID	X15	6.82	.782	21.5	999	1.48	0.03	GRAY-BRN
Total Well Depth (TD): 29.00	20	6.91	.778	21.1	505	1.72	0.03	SLIGHT BRN
Static Water Level (WL): 20.77	25	6.84	.771	20.8	634	1.63	0.03	"
One Casing Volume(gal/L): 1.68	30	6.85	.774	20.7	183	1.83	0.03	"
Start Purge (hrs): 0003								
End Purge (hrs): 0033								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 18								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 2.20 ft.

Filtered TAL Metals Sample ID No.: 003-TW-P07-F1

15 min @ 600ml/min
30 min @ 600ml/min

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- P03-01
Sample Location: P03
Sampled By: TR / JW
C.O.C. No.: LTL-004
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7/12/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 2130								
Method: Peristaltic	OLIVE BRN	6.67	1.05	16.7	999	1.24	0.04	NA

PURGE DATA: TIME

	~~Volume~~ (TR)	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Date: 7/12/97								
Method: Peristaltic	Initial	6.83	1.08	18.3	999	1.35	0.04	OLIVE BRN
Monitor Reading (ppm): 00	1	6.72	1.06	17.0	"	2.08	0.04	OLIVE BRN
Well Casing Diameter & Material	2	6.66	1.05	16.7	"	1.20	0.04	OLIVE BRN
Type: Harden Steel 3/4"Ø	3	6.67	1.05	16.7	"	1.24	0.04	OLIVE BRN
Total Well Depth (TD): 31.00								
Static Water Level (WL): 24.55								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 2110								
End Purge (hrs): 2115								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 9								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(7) ~~(3)~~ 40ml VOA Vial	✓
TCL Semivolatiles	NA	(4) ~~(2)~~ 1L Amber Glass	✓
TCL PCBs	NA	(4) ~~(2)~~ 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 0.12 ft. Filtered TAL Metals Sample ID No.: 003-TW- P03-~~01~~ -F1 (TR)

W/SCREEN ON BOTTOM OF TUBING
FLOW= 600ml/MIN

Circle if Applicable: MS/MSD | Duplicate ID No.:

Signature(s): Terry Rozak

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 003 -01
Sample Location: AOC -3
Sampled By: TR / JW
C.O.C. No.: 472 - 004
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/14/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0050	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Peristaltic	clear	6.88	1.07	18.3	10	5.9	0.04	NA

PURGE DATA:

Date: 7/13/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	—	—	—	—	—	—	—
Monitor Reading (ppm): 0.00	1	6.90	1.10	19.1	999	5.18	0.04	olive brn
Well Casing Diameter & Material	2	7.07	1.07	18.7	999	5.26	0.04	" "
Type: STEEL 3/4" Ø	3	7.08	1.09	18.0	55	6.81	0.04	SLIGHT TAN
Total Well Depth (TD): 35.00	4	6.99	1.07	18.3	10	5.90	0.04	clear
Static Water Level (WL): 29.60								
One Casing Volume(gal/L): <1								
Start Purge (hrs): 2350								
End Purge (hrs): 0045								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 0.45 ft. Filtered TAL Metals Sample ID No.: 003-TW- 003 -F1

Pulled 1000 ml before initial volume

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-013-01
Sample Location: AOC - 13/04
Sampled By: TR / JW
C.O.C. No.: LTL-005
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/15/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0015	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Peristaltic	Clear	6.72	.763	17.2	-10	1.33	0.03	NA

PURGE DATA:

Date: 7/14/97	~~Volume~~ Time	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Min Initial	6.62	.791	19.4	494	1.77	0.03	Yellow Tint
Monitor Reading (ppm): 0.0	~~1~~ 5	6.72	.762	18.2	-10	1.38	0.03	" "
Well Casing Diameter & Material	~~2~~ 10	6.75	.760	17.6	-10	1.45	0.03	CLEAR
Type: steel 3/4" Ø	~~3~~ 15	6.72	.763	17.2	-10	1.33	0.03	"
Total Well Depth (TD): 27.00								
Static Water Level (WL): 19.75								
One Casing Volume(gal/L): NA								
Start Purge (hrs): 2350								
End Purge (hrs): 0005								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 10.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 0.45 ft.

Filtered TAL Metals Sample ID No.: 003-TW-013-F1

Flow = 700ml/min

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 008 - 01
Sample Location: A&C - 4/9
Sampled By: JW / TK
C.O.C. No.: LTL-007
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/21/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2000	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAMP	CLEAR	7.05	0.674	19.3	25	2.42	0.02	NA

PURGE DATA: TIME (MIN)

Date: 7/21/97	~~Volume (L)~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.72	.691	19.7	152	1.28	0.02	SL. TAN
Monitor Reading (ppm): 0.0	5	6.96	.667	19.4	42	1.95	0.02	CLEAR
Well Casing Diameter & Material	10	7.04	.671	19.3	33	2.53	0.02	"
Type: Steel 3/4" Ø	15	7.05	.674	19.3	25	2.42	0.02	"
Total Well Depth (TD): 27.00								
Static Water Level (WL): 19.6								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 2002								
End Purge (hrs): 2017								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 11.4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: -.57 ft. Filtered TAL Metals Sample ID No.: 003-TW- 008 -F1

Flow = 760 ml/min

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tony Kyle

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 004 - 01
Sample Location: AOC -4
Sampled By: TR/NW
C.O.C. No.: LTL - 008
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/22/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2305	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Peristaltic	SL. TAN	6.84	1.68	18.9	69	2.81	0.07	NA

PURGE DATA: TIME (min)

Date: 7/22/97	(TR) ~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.70	1.68	19.4	383	1.24	0.07	SL. TAN
Monitor Reading (ppm): 0.0	X 5	6.81	1.68	19.1	191	2.64	0.07	" "
Well Casing Diameter & Material	X 10	6.85	1.68	19.0	77	2.70	0.07	" "
Type: STEEL 3/4"	X 15	6.82	1.68	18.9	104	2.44	0.07	" "
Total Well Depth (TD): 27.00	20	6.84	1.68	18.9	69	2.81	0.07	" "
Static Water Level (WL): 19.35								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 2238 (TR)								
End Purge (hrs): 2258								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 9.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 2.6 ft. Filtered TAL Metals Sample ID No.: 003-TW- 004 -F1

460ml / min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Tony Ryck

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 038-01
Sample Location: AOC · 38
Sampled By: JL & TR
C.O.C. No.: LTL-009
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7/23/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1940								
Method: SAME	CLEAR	6.86	1.18	16.8	21	2.11	0.05	NA

PURGE DATA:

	TIME (MIN)							
Date: 7/23/97	TV ~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	TC Initial	6.82	1.17	18.4	694	2.43	0.05	Sl. tan
Monitor Reading (ppm): 0.0 TC	~~1~~ 5	6.85	1.17	17.5	125	2.00	0.05	" "
Well Casing Diameter & Material	~~2~~ 10	6.87	1.18	16.9	55	2.16	0.05	CLEAR
Type: Steel 3/4" Ø	~~3~~ 15	6.86	1.18	16.8	21	2.11	0.05	CLEAR
Total Well Depth (TD): 27.00								
Static Water Level (WL): 19.96								
One Casing Volume(gal/L): 0.64								
Start Purge (hrs): 1922								
End Purge (hrs): 1937								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 9.6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: .57 ft.

Filtered TAL Metals Sample ID No.: 003-TW- 038 -F1

FLOW RATE = 640ml/min

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Terry Rojah

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 073 01
Sample Location: AOC - 73
Sampled By: JL / TR
C.O.C. No.: LTL - 010
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/24/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1900	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	6.90	1.16	17.6	51	1.52	0.05	NA

PURGE DATA: TIME (MIN)

Date: 7/24/97 (TR)	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.86	1.16	18.5	999	1.35	0.05	TAN
Monitor Reading (ppm): 0.0	5 (TR)	6.94	1.16	17.9	117	1.23	0.05	TAN TINT
Well Casing Diameter & Material	10 (TR)	6.90	1.16	17.6	47	1.31	0.05	CLEAR
Type: Steel 3/4" Ø	15 (TR)	6.90	1.16	17.6	51	1.52	0.05	CLEAR
Total Well Depth (TD): 27.00								
Static Water Level (WL): 19.62								
One Casing Volume(gal/L): 0.7								
Start Purge (hrs): 1928								
End Purge (hrs): 1843								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 10, 2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: .47 ft. Filtered TAL Metals Sample ID No.: 003-TW- 073 -F1

FLOW = 650ml / MIN

Circle if Applicable:

MS/MSD | Duplicate ID No.: 003-TW-DP1-01 @ 0000
003-TW-DP1-F1 @ 0000

Signature(s): Terry Lyon

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-017-01
Sample Location: AOC-17
Sampled By: JL/TR
C.O.C. No.: LTL-011
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/25/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1920 (F4)	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: PERISTALTIC	cloudy	6.86	1.10	18.7	40	4.47	0.04	NA

PURGE DATA: TIME (min)

Date: 7/25/97 (F4)	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	—	—	—	—	—	—	DARK BRN
Monitor Reading (ppm): 0.8	5 ℓ	6.79	1.07	19.5	294	2.34	0.04	SL. tan
Well Casing Diameter & Material	10 ℓ	6.87	1.10	18.8	277	2.80	0.04	GREYISH
Type: Stssl 3/4" ⌀	15 ℓ	6.86	1.10	18.7	40	4.47	0.04	Cloudy
Total Well Depth (TD): 28.00								
Static Water Level (WL): 20.25								
One Casing Volume(gal/L): (F3) 0.74								
Start Purge (hrs): 1855								
End Purge (hrs): 1910								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 5.4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 0.98 ft. Filtered TAL Metals Sample ID No.: 003-TW-017 -F1

Initial sample - soapy + DARK BRN - didn't want to subject Hach to initial sample - took 3½ min to clear somewhat.

Flow 360 ml / min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Tim Rogish

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 016-01
Sample Location: AOC - 16
Sampled By: JL / TR
C.O.C. No.: LTL-011
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/26/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1622	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	6.91	1.21	20.3	15	1.44	0.05	NA

PURGE DATA: TIME (MIN)

Date: 7/26/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.75	1.20	21.5	387	1.27	0.05	TAN
Monitor Reading (ppm): 0.0	5 X	6.91	1.20	20.5	96	1.47	0.05	SL TAN
Well Casing Diameter & Material	10 X	6.91	1.21	20.4	42	1.24	0.05	CLEAR
Type: STEEL 3/4" Ø	15 X	6.91	1.21	20.3	15	1.44	0.05	"
Total Well Depth (TD): 28.00								
Static Water Level (WL): 20.00								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1605								
End Purge (hrs): 1620								
Total Purge Time (min): 1622								
Total Vol. Purged (gal/L): 9.6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 0.98 ft.

Filtered TAL Metals Sample ID No.: 003-TW- 016 -F1

Flow 640ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Terry Rigal

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 018-01
Sample Location: AOC-18
Sampled By: JL/TK
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/26/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2155	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	SI Greenish	6.81	1.08	17.7	66	1.74	0.04	NA

PURGE DATA: TIME MIN

Date: 7/26/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.58	1.09	20.0	999	1.29	0.04	Greenish Brn
Monitor Reading (ppm): 0.8	5 L	6.74	1.08	18.4	726	1.92	0.04	TAN
Well Casing Diameter & Material	10 L	6.80	1.08	18.1	406	1.72	0.04	GREYISH
Type: STEEL 3/4" Ø	15 L	6.81	1.08	17.8	203	1.63	0.04	4
Total Well Depth (TD): 28.00	20	6.81	1.08	17.7	66	1.74	0.04	SI. Greenish
Static Water Level (WL): 19.94								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 2131								
End Purge (hrs): 2151								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 13.6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.05 ft. Filtered TAL Metals Sample ID No.: 003-TW- 018 -F1

Flow = 680ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 074-01
Sample Location: AOC - 74
Sampled By: JL / TR
C.O.C. No.: LTC-012
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/27/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1850	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Peristaltic	CLEAR	7.07	.743	18.7	10	2.07	0.03	NA

PURGE DATA: Time (min)

Date: 7/27/97	~~Volume (L)~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.90	.825	20.1	999+	1.26	0.03	Lt. BRN
Monitor Reading (ppm): 0.0	5 X	7.11	.747	19.5	220	2.11	0.03	St. TAN
Well Casing Diameter & Material	10 X	7.12	.744	19.0	31	2.21	0.03	Cloudy
Type: Steel 3/4" Ø	15 X	7.07	.743	18.7	10	2.07	0.03	Clear
Total Well Depth (TD): 28.00								
Static Water Level (WL): 20.05								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1831								
End Purge (hrs): 1846								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 8.7								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: .97 ft. Filtered TAL Metals Sample ID No.: 003-TW- 074 -F1

FLOW - 58ml/MIN

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Terry Lopat

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 035-01
Sample Location: AOC - 035
Sampled By: JW / TR
C.O.C. No.: LTL-013
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/29/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2140	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: PERISTALTIC	CLEAR	7.67	.664	15.8	3	7.17	0.02	NA

PURGE DATA: TIME (min)

Date: 7/29/97	~~Volume~~ (GAL)	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: PERISTALTIC	Initial	7.44	.749	17.8	999	1.61	0.03	BRN
Monitor Reading (ppm): 0.0	5 ✓	7.68	.667	16.5	557	6.90	0.02	TAN
Well Casing Diameter & Material	10 ✓	7.69	.661	15.9	81	7.13	0.02	Cloudy
Type: STEEL 3/4" Ø	15 ✓	7.67	.664	15.8	3	7.17	0.02	CLEAR
Total Well Depth (TD): 28.00								
Static Water Level (WL): 20.18								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 2121								
End Purge (hrs): 2136								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 9.9								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: .98 ft. Filtered TAL Metals Sample ID No.: 003-TW- 035-F1

FLOW - 660ml/MIN

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-034-01
Sample Location: ASC-34
Sampled By: TA/JW
C.O.C. No.: LTC-014
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/29/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1545	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Peristaltic	CLEAR	6.50	1.07	17.0	9	3.44	0.04	NA

PURGE DATA: TIME (MIN)

Date: 7/29/97 (T)	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.50	1.07	19.4	999	2.67	0.04	BRN
Monitor Reading (ppm): 0.0	5 Y	6.50	1.06	17.5	425	2.92	0.04	SL TAN
Well Casing Diameter & Material	10 Y	6.50	1.06	17.3	95	2.91	0.04	"
Type: Steel 3/4" Ø	15 Y	6.50	1.06	17.0	19	3.10	0.04	CLEAR
Total Well Depth (TD): 28.00	20	6.50	1.07	17.0	9	3.44	0.04	"
Static Water Level (WL): 20.10								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): ~~1505~~ 1520								
End Purge (hrs): 1540								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 13.6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.02 ft. Filtered TAL Metals Sample ID No.: 003-TW-034-F1

FLOW - 600 ml/min
pH probe malfuction - used pH paper will replace probe start of next shift - this is the last Temp. well this shift.

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Terry Boyd

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 054 - 01
Sample Location: AOC - 054
Sampled By: TR / JL
C.O.C. No.: LTL-015
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/4/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1935	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: PERISTALTIC	CLEAR	7.10	1.06	16.5	21	2.21	0.04	NA

PURGE DATA: TIME (min)

Date: 8/4/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: PERISTALTIC	Initial	7.04	1.11	18.3	999	1.27	0.04	BRN
Monitor Reading (ppm): 0.0	5 L	7.13	1.06	17.3	381	1.81	0.04	TAN
Well Casing Diameter & Material	10 L	7.12	1.06	16.9	102	1.52	0.04	SL. TAN
Type: STEEL 3/4" Ø	15 L	7.10	1.06	16.7	32	1.63	0.04	CLOUDY
Total Well Depth (TD): 23.00	20	7.10	1.06	16.5	21	2.21	0.04	CLEAR
Static Water Level (WL): 20.00								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1912								
End Purge (hrs): 1932								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 12								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.03 ft.

Filtered TAL Metals Sample ID No.: 003-TW- 054 -F1

FLOW: 600ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Tony Lopez

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 063-01
Sample Location: AOC-63
Sampled By: JL/TR
C.O.C. No.: LTL-016
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/5/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1935	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	7.24	.638	15.9	6	5.71	0.02	NA

PURGE DATA: TIME (MIN)

Date: 8/5/97	~~Volume~~ (TA)	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	7.29	0.605	17.5	999	5.19	0.02	BRN
Monitor Reading (ppm): 0.0	5 X (TA)	7.25	.624	16.8	303	5.71	0.02	TAN
Well Casing Diameter & Material	10 X (TA)	7.24	.635	16.4	26	5.70	0.02	CLEAR
Type: STEEL 3/4"Ø	15 X (TA)	7.17	.636	16.1	11	5.23	0.02	CLEAR
Total Well Depth (TD): 28.00	20	7.24	.638	15.9	6	5.71	0.02	CLEAR
Static Water Level (WL): 19.30								
One Casing Volume(gal/L): 0.93								
Start Purge (hrs): 1913								
End Purge (hrs): 1933								
Total Purge Time (min): 20								
Total Vol. Purged (gal/(L)): 15.4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.02 ft. Filtered TAL Metals Sample ID No.: 003-TW- 063 -F1

NEXT to boring PEP SET CATALYST 7360
PEP SET 17105
&
PEP SET 11 7200

FLOW - 770ml/MIN

→ INORGANICS ONLY

Circle if Applicable:
MS/MSD | Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 037-01
Sample Location: AOC-37
Sampled By: TR/JW
C.O.C. No.: LTL-017
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/6/97 Time: 2200	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other NA
Method: SAME	CLEAR	6.97	1.15	17.2	18	2.57	0.05	NA

PURGE DATA: TIME (MIN)

Date: 8/6/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.92	1.14	18.6	999	1.17	0.04	BRN
Monitor Reading (ppm): 0.0	5'	6.94	1.15	17.7	165	1.73	0.04	TAN
Well Casing Diameter & Material	10'	6.95	1.15	17.3	37	1.86	0.05	CLEAR
Type: Steel; 3/4" Ø	15'	6.95	1.15	17.2	50	2.41	0.05	Cloudy
Total Well Depth (TD): 28.00	20	6.97	1.15	17.2	18	2.57	0.05	CLEAR
Static Water Level (WL): 20.00								
One Casing Volume(gal/L): .74								
Start Purge (hrs): 21:34								
End Purge (hrs): 21:54								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 11.6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft. Filtered TAL Metals Sample ID No.: 003-TW- 037 -F1

FLOW = 580ml/MIN

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- P06 01
Sample Location: P06
Sampled By: JL/TR
C.O.C. No.: LTL-018
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/7/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2020	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	6.76	1.21	20.0	9	2.05	0.05	NA

PURGE DATA: TIME (MIN)

Date: 8/7/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.83	1.22	21.5	999+	0.83	0.05	BRN
Monitor Reading (ppm): 0.0	5	6.78	1.21	20.8	643	1.24	0.05	TAN
Well Casing Diameter & Material	10	6.76	1.21	20.4	189	1.75	0.05	SL. TAN
Type:	15	6.75	1.21	20.2	32	1.73	0.05	Cloudy
Total Well Depth (TD): 28.00	20	6.76	1.21	20.0	9	2.05	0.05	CLEAR
Static Water Level (WL): 20.63								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1956								
End Purge (hrs): 2016								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.02 ft. Filtered TAL Metals Sample ID No.: 003-TW- P06 -F1

FLOW- 670ml/MIN

Circle if Applicable:

MS/MSD

Duplicate ID No.: 003-TW-DP1-02 & F2

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- PG1-01
Sample Location: PG1
Sampled By: JL/TR
C.O.C. No.: LTL - 019
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/8/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1930	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Peristaltic	CLEAR	7.35	.404	16.3	14	3.49	0.01	NA

PURGE DATA: TIME (MIN)

Date: 8/8/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	7.24	.426	18.1	999+	3.07	0.01	LBRN
Monitor Reading (ppm): 0.0	5 X	7.41	.401	17.1	539	3.41	0.01	TAN
Well Casing Diameter & Material	10 X	7.39	402	16.7	148	2.42	0.01	SL. TAN
Type: Steel 3/4" Ø	15 X	7.37	.404	16.5	42	3.51	0.01	Cloudy
Total Well Depth (TD): 28.00	20	7.35	.404	16.3	14	3.49	0.01	Clear
Static Water Level (WL): 19.20								
One Casing Volume(gal/L): 0.8								
Start Purge (hrs): 1805								
End Purge (hrs): 1825								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 15.4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.01 ft. Filtered TAL Metals Sample ID No.: 003-TW- PG1 -F1

Flow = 770 ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-023-01
Sample Location: AOC-23
Sampled By: JL/TR
C.O.C. No.: LTL-019
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/9/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1438	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	7.16	.630	20.5	29	2.14	0.02	NA

PURGE DATA: TIME (MIN)

Date: 8/9/97 (T) ~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	7.17	.636	21.9	999	0.38	0.02	BRN
Monitor Reading (ppm): 0.0	5 X	7.20	.631	21.1	295	1.56	0.02	TAN/GRY
Well Casing Diameter & Material	10 X	7.20	.630	20.4	270	2.04	0.02	"
Type: Steel 3/4"Ø	15 X	7.16	.630	20.7	77	1.73	0.02	Cloudy
Total Well Depth (TD): 28.00	20	7.16	.630	20.5	29	2.14	0.02	CLEAR
Static Water Level (WL): 19.90								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1435								
End Purge (hrs): 1455								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 14.4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.03 ft. Filtered TAL Metals Sample ID No.: 003-TW-023-F1

FLOW = 720ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- P12-01
Sample Location: FR
Sampled By: JL/JW/TC
C.O.C. No.: ZC LTE-019
Type of Sample: (FD)
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/10/97 Time: 2040	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other NA
Method: AMS	CLEAR	7.05	0.855	20.5	44	4.68	0.04	NA

PURGE DATA: TIME (MIN)

Date: 8/10/97 (TZ) ~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic — Initial	—	—	—	—	—	—	—
Monitor Reading (ppm): 0.0 — 1	7.17	.906	20.9	999+	0.17	0.04	BRN
Well Casing Diameter & Material — 2	7.03	.906	20.6	999+	0.67	0.04	BRN
Type: Steel 3/4" ø — 3	6.95	0.94	20.8	998+	2.96	0.03	BRN
Total Well Depth (TD): 36.00 — 4	7.02	0.92	20.7	412	4.31	0.04	BRN
Static Water Level (WL): 22.52 — 5	6.99	0.858	20.6	90	3.77	0.04	Cloudy
One Casing Volume(gal/(L)): 1 — 6	7.05	0.855	20.5	44	4.68	0.04	Clear
Start Purge (hrs): (TZ) ~~1915~~ 1940							
End Purge (hrs): 2030							
Total Purge Time (min): 50							
Total Vol. Purged (gal/(L)): 6							

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 0.25 ft. Filtered TAL Metals Sample ID No.: 003-TW- P12 -F1

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-036-01
Sample Location: AOC-036
Sampled By: T. Rogahn / J. Webster
C.O.C. No.: LTL-021
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 08-12-97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1935	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Peristaltic Pump Low Flow Method	Translucent Clear	7.45	0.629	21.8	24	5.16	0.02	NA

PURGE DATA:

Date: 8-12-97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity %	Color
Method: Peristaltic Pump	Initial 0	7.41	.702	22.7	999	5.55	.03	olive brown
Monitor Reading (ppm): 0.00	1 (5)	7.45	.624	22.4	807	5.20	.02	cloudy light gray
Well Casing Diameter & Material	2 (10)	7.45	0.624	22.0	192	5.22	0.02	slightly cloudy
Type: 3/4" ID hardened steel pipe	3 (15)	7.45	0.621	21.8	48	5.00	0.02	translucent to clear
Total Well Depth (TD): 27.00	4 (20)	7.44	0.625	21.9	34	5.14	0.02	" "
Static Water Level (WL): 18.26	5 (25)	7.45	0.629	21.8	24	5.16	0.02	" "
One Casing Volume(gal/L): 0.86								
Start Purge (hrs): 1902								
End Purge (hrs): 1927								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L): ~~3200 ml or 3.2 LTD~~ 16000 ml or 16.0L (4 gallon)								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: .21 ft.
Filtered TAL Metals Sample ID No.: 003-TW-036 -F1

640 ml/min

Note: Volumes extracted on 5 minute intervals

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- P02-01
Sample Location: P02
Sampled By: JW / TK
C.O.C. No.: LTL-023
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/19/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1320	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	BRN	6.79	1.02	18.1	10	2.15	0.04	NA

PURGE DATA: TIME (MIN)

Date: 8/19/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.90	0.95	18.8	999+	0.85	0.04	BRN
Monitor Reading (ppm): 0.0	5 X (TV)	6.82	1.02	18.4	999+	1.81	0.04	TAN
Well Casing Diameter & Material	10 X	6.81	1.02	18.2	216	1.84	0.04	SL. TAN
Type: Steel 3/4" Ø	15 X	6.81	1.02	18.2	10	2.57	0.04	SL Cloudy
Total Well Depth (TD): 28.00	20	6.79	1.02	18.1	10	2.15	0.04	Clear
Static Water Level (WL): 19.60								
One Casing Volume(gal/L): 0.8								
Start Purge (hrs): 1253								
End Purge (hrs): 1313								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 11.6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft.

Filtered TAL Metals Sample ID No.: 003-TW- P02 -F1

FLOW = 580ml / MIN

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Ty Hoyt

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 058-01
Sample Location: AOC-58
Sampled By: JW/TK
C.O.C. No.: LTL-024
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/20/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0025	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	7.34	.561	18.5	10	1.80	0.02	NA

PURGE DATA: TIME(MIN)

Date: 8/19/97 (TA) ~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: PERISTALTIC	Initial	7.27	.587	19.8	999+	0.57	0.02	BRN
Monitor Reading (ppm): 0.0	5 (TA)	7.38	.566	19.2	999+	1.65	0.02	BRN
Well Casing Diameter & Material	10	7.35	.562	18.8	568	1.16	0.02	TAN
Type: STEEL 3/4"Ø	15	7.33	.560	18.6	26	1.39	0.02	SL. TAN → cloudy
Total Well Depth (TD): 28.00	20	7.34	.561	18.5	10	1.80	0.02	CLEAR
Static Water Level (WL): 20.15								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 2358								
End Purge (hrs): 0018								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 13.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.03 ft. Filtered TAL Metals Sample ID No.: 003-TW- 058 -F1

Flow = 660 ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-007-01
Sample Location: AOC-07
Sampled By: J.L / TC
C.O.C. No.: LTL-026
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 08-21-97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2125	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	6.87	0.91	13.3	10	2.74	0.03	NA

PURGE DATA: TIME (MIN)

Date: 8/21/97 (FM)	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	· Initial	7.00	0.91	15.1	999+	1.32	0.04	BRN
Monitor Reading (ppm): 0.0	5 X IV	6.95	0.91	14.1	182	1.87	003	Cloudy
Well Casing Diameter & Material	10 ✓	6.91	0.91	13.6	10	2.22	0.03	CLEAR
Type: STEEL 3/4" Ø	15 ✓	6.88	0.91	13.5	10	2.66	0.03	CLEAR
Total Well Depth (TD): 28.00	20	6.87	0.91	13.3	10	2.74	0.03	CLEAR
Static Water Level (WL): 19.40								
One Casing Volume(gal/L): 0.8								
Start Purge (hrs): 2100								
End Purge (hrs): 2120								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 12								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(7) (TC) ~~(3)~~ 40ml VOA Vial	✓
TCL Semivolatiles	NA	(4) ~~(2)~~ 1L Amber Glass	✓
TCL PCBs	NA	(4) ~~(2)~~ 1L Amber Glass	✓
Cyanide	NaOH	(2) ~~(1)~~ 500ml HDPE	✓
TAL Metals (Total)	HNO3	(2) ~~(1)~~ 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(2) ~~(1)~~ 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft. Filtered TAL Metals Sample ID No.: 003-TW-007 -F1

Flow = 600ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Tom Lozel

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 027-01
Sample Location: AOC-7
Sampled By: JW / TK
C.O.C. No.: LTC-027
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/22/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2205	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Peristaltic	CLEAR	7.37	.523	20.5	0	6.08	0.02	NA

PURGE DATA: TIME (MIN)

Date: 8/22/97 (TK) ~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	7.25	.537	20.9	999+	1.49	0.02	BRN
Monitor Reading (ppm): 0.0	5 X	7.36	.525	20.7	7	5.30	0.02	CLEAR
Well Casing Diameter & Material	10 X	7.37	.524	20.7	83	5.50	0.02	cloudy
Type: Steel 3/4" Ø	15 X	7.36	.523	20.6	2	5.71	0.02	CLEAR
Total Well Depth (TD): 28.00	20	7.37	.523	20.5	0	6.08	0.02	CLEAR
Static Water Level (WL): 20.43								
One Casing Volume(gal/L): 0.7								
Start Purge (hrs): 2140								
End Purge (hrs): 2200								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft. Filtered TAL Metals Sample ID No.: 003-TW- 027 -F1

FLOW = 300ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Tey Agel

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 030 -01
Sample Location: AOC - 30
Sampled By: TR/JW/JL
C.O.C. No.: LTL - 027 & 028
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 8/23/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1715								
Method: SAME	CLEAR	7.39	.461	19.5	18	5.20	0.01	NA

PURGE DATA: TIME (MIN)

Date: 8/23/97 (TIME)	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	7.72	.470	20.8	999+	0.21	0.01	LT BRN
Monitor Reading (ppm): 0.0	5 (TIME)	7.44	.463	19.9	186	4.14	0.01	Cloudy
Well Casing Diameter & Material	10 2	7.49	.463	19.7	122	4.80	0.01	"
Type: Steel 3/4" Ø	15 3	7.42	.462	19.6	32	5.24	0.01	CLEAR
Total Well Depth (TD): 28.00	20	7.39	.461	19.5	18	5.20	0.01	"
Static Water Level (WL): 19.92								
One Casing Volume(gal/L): 3.74								
Start Purge (hrs): 1648								
End Purge (hrs): 1708								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 0.99 ft. Filtered TAL Metals Sample ID No.: 003-TW- 030 -F1

FLOW
↳ 560ml/min

Circle if Applicable:

MS/MSD | Duplicate ID No.: 003-TW-DP1-03 & F3

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- P09-01
Sample Location: P09
Sampled By: JW / TR
C.O.C. No.: LTC-028
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/24/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1230	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	7.01	1.19	20.4	2	6.00	0.05	NA

PURGE DATA: TIME (MIN)

Date: 8/24/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.97	1.16	20.2	999	1.50	0.05	BRN
Monitor Reading (ppm): 0.0	5 X	6.97	1.19	20.4	192	5.18	0.05	LT. BRN
Well Casing Diameter & Material	10 X	7.00	1.19	20.4	2	5.64	0.05	CLEAR
Type: Steel 3/4" Ø	15 X	7.01	1.19	20.4	2	6.00	0.05	"
Total Well Depth (TD): 25.00								
Static Water Level (WL): 19.76								
One Casing Volume(gal/L): 0.8								
Start Purge (hrs): 1205								
End Purge (hrs): 1220								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 3.9								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft.

Filtered TAL Metals Sample ID No.: 003-TW- P09 -F1

FLOW = 260ml/min

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 055 - 01
Sample Location: AOC 55
Sampled By: JW/TR
C.O.C. No.: LTL-029
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 8/24/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1835								
Method: SAME	CLEAR	6.98	1.01	17.3	15	3.02	0.04	NA

PURGE DATA: TIME (MIN)

		pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Date: 8/24/97	TR ~~Volume~~							
Method: Peristaltic	Initial	7.17	0.99	19.3	999+	2.23	0.03	BRN
Monitor Reading (ppm): 0.0	5 ~~X~~ TR	7.06	1.00	18.7	999	2.27	0.04	Lt BRN
Well Casing Diameter & Material	10 ~~2~~	7.04	1.00	18.2	999	2.45	0.04	"
Type: Steel	15 ~~3~~	7.02	1.01	17.9	944	2.47	0.04	"
Total Well Depth (TD): 29.00	20	7.01	1.01	17.7	646	2.90	0.04	"
Static Water Level (WL): 20.26	25	7.00	1.01	17.7	406	2.63	0.04	"
One Casing Volume(gal/L): 0.7	30	6.99	1.01	17.4	83	2.74	0.04	Cloudy
Start Purge (hrs): 1755	35	6.98	1.01	17.3	15	3.02	0.04	Clear
End Purge (hrs): 1830								
Total Purge Time (min): 35								
Total Vol. Purged (gal/L): 14.7								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 100 ft.

Filtered TAL Metals Sample ID No.: 003-TW- 055 -F1

Flow = 420 ml/min

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 032-01
Sample Location: AOC 32
Sampled By: TR/JW
C.O.C. No.: LTL-30
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 8/26/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1310								
Method: SAME	CLEAR	6.94	.832	15.6	10	2.42	0.03	NA

PURGE DATA: TIME (MIN)

	~~Volume~~ (TR)	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Date: 8/26/97								
Method: Peristaltic	Initial	—	—	—	—	—	—	D. BRN
Monitor Reading (ppm): 1.7	5 X (TR)	6.80	1.05	16.3	999	2.13	0.04	BRN
Well Casing Diameter & Material	10 X	6.96	0.92	16.0	200	2.30	0.04	Lt. BRN
Type: Steel 3/4" Ø	15 X	6.94	.847	15.7	15	1.89	0.03	Cloudy
Total Well Depth (TD): 28.00	20	6.94	.832	15.6	10	2.42	0.03	Clear
Static Water Level (WL): 19.85								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1247								
End Purge (hrs): 1307								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 11.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft.

Filtered TAL Metals Sample ID No.: 003-TW- 032 -F1

FLOW = 560 ml/MIN

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-008-01
Sample Location: 008
Sampled By: JV/JL
C.O.C. No.: LTL - 032
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 09-03-97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1453	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Same	Clear	6.84	1.09	19.3	10	2.45	0.04	NA

PURGE DATA: TIME (min)

Date: 09-03-97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	7.02	1.01	20.1	999	2.11	0.04	Light Brown
Monitor Reading (ppm): 0.0	5 x	6.88	1.07	19.7	10	2.50	0.04	Clear
Well Casing Diameter & Material	10 x	6.87	1.08	19.4	10	2.40	0.04	Clear
Type: Steel 3/4" Ø	15 x	6.85	1.09	19.4	10	2.35	0.04	Clear
Total Well Depth (TD): 28.00	20	6.84	1.09	19.3	10	2.45	0.04	Clear
Static Water Level (WL): 20.32								
One Casing Volume(gal/L):								
Start Purge (hrs): 1420								
End Purge (hrs): 1450								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 12								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft. Filtered TAL Metals Sample ID No.: 003-TW-008 -F1

Flow = 600 ml/min

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 070-01
Sample Location: AOC-70
Sampled By: JW/TR
C.O.C. No.: LTL-034
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9/4/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1858								
Method: SAME	CLEAR	6.76	1.24	19.1	10	3.55	0.05	NA

PURGE DATA: TIME (MIN)

	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Date: 9/4/97								
Method: Peristal	Initial	6.74	1.32	20.7	999	2.33	0.06	Olive BRN
Monitor Reading (ppm): 0.0	5 1	6.79	1.24	19.9	10	2.80	0.05	Cloudy (TR)
Well Casing Diameter & Material	10 2	6.78	1.24	19.4	10	2.28	0.05	Clear
Type: Steel; 3/4" Ø	15 3	6.77	1.24	19.1	10	3.44	0.05	"
Total Well Depth (TD): 28.00	20	6.76	1.24	19.1	10	3.55	0.05	"
Static Water Level (WL): 20.65								
One Casing Volume(gal/L): 0.7								
Start Purge (hrs): 1833								
End Purge (hrs): 1853								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 12.4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.04 ft.

Filtered TAL Metals Sample ID No.: 003-TW- 070 -F1

Flow = 620 ml/min

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Terry Rozak

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- P10-01
Sample Location: P10
Sampled By: JL / TR
C.O.C. No.: LTL-035
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/5/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2040	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	Cloudy	7.13	0.99	21.4	59	3.73	0.04	NA

PURGE DATA: TIME (MIN)

Date: 9/5/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	—	—	—	—	—	—	D. BRN
Monitor Reading (ppm): 0.0	5 X	6.94	1.04	22.1	999	1.25	0.04	"
Well Casing Diameter & Material	10 X	7.14	0.99	21.7	999	2.42	0.04	LT BRN
Type: Steel; 3/4" Ø	15 X	7.14	0.99	21.6	940	3.26	0.04	"
Total Well Depth (TD): 36.00	25	7.14	0.99	21.4	228	4.09	0.04	LT TAN
Static Water Level (WL): 21.60	25	7.15	0.99	21.4	59	3.73	0.04	Cloudy
One Casing Volume(gal/L): 1.4	30	Took ~5 min to Fill For 25 min Readings						
Start Purge (hrs): 2006								
End Purge (hrs): 2036								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 8.4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 0.12 ft. Filtered TAL Metals Sample ID No.: 003-TW- P10 -F1

FLOW = 290 ml/min

Circle if Applicable:
MS/MSD Duplicate ID No.: 003-TW-DP1-04 & F4

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- P04-01
Sample Location: P04
Sampled By: TR/JW
C.O.C. No.: LTL-035 & 036
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/6/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2252	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Peristaltic	CLEAR	7.54	0.98	20.8	15	8.16	0.04	NA

PURGE DATA: Time (min)

Date: 9/6/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	7.32	0.96	20.3	999	2.23	0.04	D.BRN
Monitor Reading (ppm): 0.0	5 L	7.53	0.97	21.3	31	7.94	0.04	cloudy
Well Casing Diameter & Material	10 L	—	—	—	—	—	—	—
Type: Steel 3/4" ø	15 L	7.55	0.98	20.9	15	7.94	0.04	CLEAR
Total Well Depth (TD): 24.00	20	—	—	—	—	—	—	—
Static Water Level (WL): 19.65	25	7.54	0.98	20.8	15	8.16	0.04	CLEAR
One Casing Volume(gal/L): 0.8								
Start Purge (hrs): 2225								
End Purge (hrs): 2250								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L): 4.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft.

Filtered TAL Metals Sample ID No.: 003-TW- P04 -F1

FLOW = 180ml/min

CHEMICAL ODOR

FID READINGS
1.9 @ HOSE discharge 2238 Hrs
0.0 @ TOC

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
~~[X] QA Sample Type~~ FD

Sample ID No.: 003-TW- 033 -01
Sample Location: AOC -033
Sampled By: JL / TK
C.O.C. No.: LTL -037
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/8/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1850	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	7.28	.707	20.3	8	6.34	0.03	NA

PURGE DATA: TIME (Min)

Date: 9/8/97	~~Volume~~ (L)	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	7.38	.765	23.3	999+	6.09	0.04	BRN
Monitor Reading (ppm): 0.0	5 (10)	7.31	.705	20.7	5	5.79	0.04	Clear
Well Casing Diameter & Material	10 (15)	7.29	.706	20.5	2	6.47	0.03	"
Type: Steel; 3/4" Ø	15 (20)	7.29	.707	20.3	6	5.92	0.03	"
Total Well Depth (TD): 24.00	20	7.28	.707	20.3	8	6.34	0.03	"
Static Water Level (WL): 19.22								
One Casing Volume(gal/L):								
Start Purge (hrs): 1825								
End Purge (hrs): 1845								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 0.15 ft. Filtered TAL Metals Sample ID No.: 003-TW- 033 -F1

Flow = 600ml / min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- P11-01
Sample Location: P11
Sampled By: JW / JL
C.O.C. No.: LTC-038
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/9/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1740	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	6.89	1.04	20.4	10	4.12	0.04	NA

PURGE DATA: TIME (min)

Date: 9/9/97 (T) ~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: PERISTALTIC	Initial	6.97	1.08	21.4	999	2.35	0.03	BRN
Monitor Reading (ppm): 0.0	5 (T)	6.91	1.05	20.9	10	2.73	0.04	cloudy
Well Casing Diameter & Material	10	6.90	1.04	20.6	10	3.02	0.04	"
Type: STEEL 3/4" ∅	15	6.91	1.04	20.5	10	3.50	0.04	"
Total Well Depth (TD): 38.00	20	6.89	1.04	20.4	10	4.12	0.04	CLEAR
Static Water Level (WL): 20.37								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1717								
End Purge (hrs): 1737								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 11.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(2) (X) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(2) (TW) (X) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(2) (X) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.02 ft.

Filtered TAL Metals Sample ID No.: 003-TW- P11 -F1

Flow = 560ml/min

Circle if Applicable:
MS/MSD
Duplicate ID No.:
INORGANICS
METALS & CN⁻

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-029-01
Sample Location: AOC 29
Sampled By: TC/JL
C.O.C. No.: 472-039
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9/15/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 2035								
Method: SAME	CLEAR	7.35	.583	20.9	9	4.82	0.02	NA

PURGE DATA: TIME (MIN)

	~~Volume~~ TW	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Date: 9/15/97								
Method: PERISTALTIC	Initial	7.03	.641	22.5	999	2.39	0.02	BRN
Monitor Reading (ppm): 0.2	5 X (TW)	7.36	.583	21.5	492	4.12	0.02	LT. TAN
Well Casing Diameter & Material	10 "	7.35	.583	21.3	103	4.31	0.02	Cloudy
Type: Steel 3/4" Ø	15 "	7.34	.582	21.0	20	4.04	0.02	CLEAR
Total Well Depth (TD): 28.00	20	7.35	.583	20.9	9	4.82	0.02	"
Static Water Level (WL): 20.15								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): (TW) ~~1958~~ 2010								
End Purge (hrs): 2030								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.04 ft. Filtered TAL Metals Sample ID No.: 003-TW- 029 -F1

Flow = 600ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 028 -01
Sample Location: AOC - 28
Sampled By: MM / TR
C.O.C. No.: LTL-040
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/16/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2340	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Peristaltic	CLEAR	7.09	.702	20.1	10	5.53	0.03	NA

PURGE DATA: Time (min)

Date: 9/16/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	7.07	.713	21.0	999	1.49	0.03	BRN
Monitor Reading (ppm): 0.0	5 (TW)	7.11	.699	20.5	10	4.58	0.03	CLEAR
Well Casing Diameter & Material	10	7.11	.699	20.3	10	5.30	0.03	CLEAR
Type: Steel 3/4" Ø	15	7.08	.701	20.2	9	4.92	0.03	CLEAR
Total Well Depth (TD): 28.00	20	7.09	.702	20.1	10	5.53	0.03	CLEAR
Static Water Level (WL): 20.37								
One Casing Volume(gal/L): 0.79								
Start Purge (hrs): 2334								
End Purge (hrs): 2354								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 9.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.03 ft. Filtered TAL Metals Sample ID No.: 003-TW- 028 -F1

FLOW = 460ml / min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Tony / Gail

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- P05-01
Sample Location: P05
Sampled By: TR /
C.O.C. No.: LTL-041
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9/17/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1935								
Method: SAME	CLEAR	7.45	.607	20.2	10	7.78	0.02	NA

PURGE DATA: TIME (MIN)

	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Date: 9/17/97								
Method: Peristaltic	Initial	7.44	.568	21.9	999	0.80	0.02	BRN
Monitor Reading (ppm):	5 (TC)	7.36	.603	20.8	10	6.99	0.02	Clear
Well Casing Diameter & Material	10 2	7.40	.608	20.5	10	7.22	0.02	"
Type: Steel 3/4" Ø	15 3	7.43	.607	20.5	8	7.41	0.02	"
Total Well Depth (TD): 28.00	20	7.45	.607	20.2	10	7.78	0.02	"
Static Water Level (WL): 19.95								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1855 (1st) 2ND start @ 1910								
End Purge (hrs): 1930								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 6.8 plus 1 Vol.								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft.

Filtered TAL Metals Sample ID No.: 003-TW- P05 -F1

DRIED UP @ 1958

FLOW = 430ml/min = 2150ml @ 5min.

FLOW @ 1919 310ml/min = 465 @ 15min

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-071-01
Sample Location: AOC 71
Sampled By: TE/JL
C.O.C. No.: LTC-042
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9/19/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1615								
Method: SAME	CLEAR	7.07	.857	17.9	10	7.47	0.03	NA

PURGE DATA: TIME (MIN)

	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Date: 9-19-97								
Method: Peristaltic	Initial	7.03	.792	18.5	998	0.27	0.03	BRN
Monitor Reading (ppm): 0.0	5 X (TE)	7.03	.859	18.0	385	6.46	0.03	SL TAN
Well Casing Diameter & Material	10 X	—	—	—	—	—	—	—
Type: S+EL, 3/4" Ø	15 X	7.01	.862	17.9	10	7.30	0.03	CLEAR
Total Well Depth (TD): 23.00	20	—	—	—	—	—	—	—
Static Water Level (WL): 19.56	25	7.07	.857	17.9	10	7.47	0.03	CLEAR
One Casing Volume(gal/L): 0.8								
Start Purge (hrs): 1547								
End Purge (hrs): 1612								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L) 5.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft. Filtered TAL Metals Sample ID No.: 003-TW-071-F1

Flow Rate = 220 ml/min x 15 = 3300 ml
190 ml/min @ 1604 x 10 = 1900

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Terry Lopez

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-096-01
Sample Location: AOC 46
Sampled By: J.L / JW
C.O.C. No.: LTC-044
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/19/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1943	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	7.72	.609	21.2	10	8.30	0.02	NA

PURGE DATA: TIME (min)

Date: 9/19/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: PERISTALTIC	Initial	7.94	.655	21.7	999	0.89	0.02	BRN
Monitor Reading (ppm): 0.6	5 1	7.93	.629	20.7	999	2.93	0.02	BRN
Well Casing Diameter & Material	13 2	7.65	.613	21.2	672	7.34	0.02	TAN
Type: STEEL, 3/4" Ø	21 3	7.64	.611	21.0	30	8.13	0.02	Cloudy
Total Well Depth (TD): 28.00	29	7.66	.610	21.1	76	8.37	0.02	TANISH
Static Water Level (WL): 20.33	37	7.72	.609	21.2	10	8.30	0.02	CLEAR
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1901								
End Purge (hrs): 1938								
Total Purge Time (min): 37								
Total Vol. Purged (gal/L): 6.7								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(7) (TB) ~~(3)~~ 40ml VOA Vial	✓
TCL Semivolatiles	NA	(4) ~~(2)~~ 1L Amber Glass	✓
TCL PCBs	NA	(4) ~~(2)~~ 1L Amber Glass	✓
Cyanide	NaOH	(2) ~~(1)~~ 500ml HDPE	✓
TAL Metals (Total)	HNO3	(2) ~~(1)~~ 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(2) ~~(1)~~ 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft.

Filtered TAL Metals Sample ID No.: 003-TW-096-F1

Flow = 180 ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 026-01
Sample Location: AOC-26
Sampled By: JL/TR
C.O.C. No.: LTI-044
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/24/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1845	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Peristaltic	clear	6.80	1.03	22.7	10	2.55	0.04	NA

PURGE DATA:

Date: 9/24/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	SHEEN	—	—	—	—	—	DARK BRN
Monitor Reading (ppm): 3833	5 1	6.53	1.07	23.7	10	4.14	0.04	CLEAR→Cloudy
Well Casing Diameter & Material	10 2	6.80	1.04	23.2	10	2.91	0.04	CLEAR
Type: steel 3/4"Ø	15 3	6.81	1.04	22.9	10	3.85	0.04	"
Total Well Depth (TD): 28.00	20	6.80	1.03	22.7	10	2.55	0.04	"
Static Water Level (WL): 20.17								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1822								
End Purge (hrs): 1842								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 140								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft. Filtered TAL Metals Sample ID No.: 003-TW- 026 -F1

FLOW - 700ml/min

CHEM ODOR & SHEEN

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-068-01
Sample Location: AOC 68
Sampled By: JL/TR
C.O.C. No.: LTL-044
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/21/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1728	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	7.08	1.38	21.4	10	6.94	0.06	NA

PURGE DATA: TIME (MIN)

Date: 9/21/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	7.02	1.58	22.2	999	6.82	0.07	LT BRN
Monitor Reading (ppm): 0.0	5 (TV)	7.10	1.41	21.9	546	6.85	0.06	"
Well Casing Diameter & Material	10	7.11	1.38	21.6	68	6.87	0.06	Cloudy
Type: Steel 3/4" Ø	15	7.07	1.38	21.6	11	6.81	0.06	"
Total Well Depth (TD): 28.00	20	7.08	1.38	21.4	10	6.94	0.06	CLEAR
Static Water Level (WL): 20.04								
One Casing Volume(gal/L) X 0.74								
Start Purge (hrs): 1709								
End Purge (hrs): 1724								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 8.4								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft. Filtered TAL Metals Sample ID No.: 003-TW-068 -F1

Flow = 420ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-015-01
Sample Location: AOC 15
Sampled By: TR/JL
C.O.C. No.: ITL-045
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9/22/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 2005								
Method: SAME	CLEAR	7.51	.497	19.9	10	7.27	0.02	NA

PURGE DATA: TIME (MIN) 575

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Date: 9/22/97								
Method: PERISTALTIC	Initial	6.91	~~.552~~	20.4	999	6.45	0.01	BRN
Monitor Reading (ppm): 0.3	5 (FR)	7.48	.499	20.3	10	7.75	0.02	CLEAR
Well Casing Diameter & Material	10	7.51	.497	20.2	10	7.89	0.02	CLEAR
Type: STEEL 3/4" Ø	15	7.51	.497	20.1	10	7.60	0.02	CLEAR
Total Well Depth (TD): 28.00	20	7.51	.497	19.9	10	7.27	0.02	CLEAR
Static Water Level (WL): 20.07								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1st 1929/1941 2nd								
End Purge (hrs): 2001								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 8								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft. Filtered TAL Metals Sample ID No.: 003-TW-015 -F1

1ST START PURGE ~ 1L (DRIED UP)
2ND START @ 1941

FLOW 400ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 047 - 01
Sample Location: AOC 47
Sampled By: JL / TR
C.O.C. No.: LTL - 046
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/23/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1844	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	6.98	1.65	21.1	10	6.05	0.07	NA

PURGE DATA: TIME (MIN)

Date: 9/24/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.97	1.48	21.8	999	4.31	0.06	BRN
Monitor Reading (ppm): 0.4	5 X (TV)	6.99	1.64	21.5	10	6.23	0.07	CLEAR
Well Casing Diameter & Material	10 2	7.00	1.65	21.3	10	6.19	0.07	CLEAR
Type: Steel 3/4" ø	15 X	6.98	1.65	21.1	10	6.05	0.07	CLEAR
Total Well Depth (TD): 28.00								
Static Water Level (WL): 20.10								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1825								
End Purge (hrs): 1840								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 10								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft. Filtered TAL Metals Sample ID No.: 003-TW- 047 -F1

FLOW = 670ml/min

Circle if Applicable:

MS/MSD | Duplicate ID No.: 003-TW-DP1-05 & F5

Signature(s): Terry Lojek

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 050 - 01
Sample Location: ADC 50
Sampled By: TK / JL
C.O.C. No.: LTC - 047
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/24/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2105	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	6.78	1.13	22.9	10	3.57	0.05	NA

PURGE DATA: TIME (MIN)

Date: 9/24/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	(TK) Color LT. ~~Sight~~ BRN
Method: Peristaltic	Initial	6.65	1.16	23.2	999	2.55	0.05	
Monitor Reading (ppm): 0.0	5 (TK)	6.79	1.13	23.1	433	2.69	0.05	TAN
Well Casing Diameter & Material	10 &	6.79	1.13	23.1	10	3.26	0.05	CLEAR
Type: Steel, 3/4" ⌀	15 &	6.77	1.13	22.9	10	3.41	0.05	"
Total Well Depth (TD): 28.00	20	6.78	1.13	22.9	10	3.57	0.05	"
Static Water Level (WL): 20.15								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 2043								
End Purge (hrs): 2103								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 13.8								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft. Filtered TAL Metals Sample ID No.: 003-TW- 050 -F1

Flow = 690 ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW- 039-01
Sample Location: AOC 39
Sampled By: JL / TR
C.O.C. No.: LTL-048
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/25/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1940	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR	6.99	1.16	20.9	6	5.55	0.05	NA

PURGE DATA: TIME (MIN)

Date: 9/25/97	~~Volume~~	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method: Peristaltic	Initial	6.81	1.23	22.6	999	5.14	0.05	Olive BRN
Monitor Reading (ppm): 0.0	5 (TX)	6.99	1.16	22.1	168	5.65	0.05	TAN
Well Casing Diameter & Material	10	7.00	1.16	21.5	49	5.26	0.05	Cloudy
Type: STEEL 1, 3/4" Ø	15	7.00	1.16	21.3	19	5.34	0.05	CLEAR
Total Well Depth (TD): 29.00	20	6.99	1.16	20.9	6	5.55	0.05	CLEAR
Static Water Level (WL): 20.13								
One Casing Volume(gal/L): 0.74								
Start Purge (hrs): 1918								
End Purge (hrs): 1938								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 14								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: 1.00 ft.

Filtered TAL Metals Sample ID No.: 003-TW- 039 -F1

Flow 700ml/min

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

APPENDIX A.2

SAMPLE LOG SHEETS FOR GROUNDWATER - MONITORING WELLS

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS-285 -01
Sample Location: MS-285
Sampled By: CS & TR
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2-11-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1400	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Bladder Pump								NA

PURGE DATA:

Date: 2-11-98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2"ϕ S.S. Screen Steel Riser								
Total Well Depth (TD): 27.3								
Static Water Level (WL): 19.27			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L): 5L	1.3 gal							
Start Purge (hrs): 1304								
End Purge (hrs): 1400								
Total Purge Time (min): 56								
Total Vol. Purged (gal/L) 10.9	2.8 gal							

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	16.9 °C	Filtered TAL Metals Sample ID No.:	003-MS-285 -F1
pH (YSI meter):	6.79 S.U.		
ORP (YSI meter):	-68.7 mV	CO2	125 mg/L
DO (modified Winkler titration test kit):	1.69 mg/L		
Dissolved Ferrous Iron (*):	2.32 mg/L		
Dissolved Reduced Manganese (*):	1.2 mg/L		
Hydrogen Sulfide (as Sulfide) (*):	0.021 mg/L		

*Notes use of DR/700 Colorimeter

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS- 28I -01
Sample Location: MS-
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2-11-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1645	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Bladder Pump								NA

PURGE DATA:

Date: 2-11-98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: SAME								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2" SCH 40 Steel Riser								
Total Well Depth (TD): 85.5								
Static Water Level (WL): 19.24			SEE LOW FLOW PURGE DATA SHEET					
One ~~Casing~~ Saturated Screen Volume(gal/L): 3.1								
Start Purge (hrs): 1555								
End Purge (hrs): 1645								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 8.8								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter): 14.96 °C
pH (YSI meter): 7.22 S.U.
ORP (YSI meter): -165.3 mV
DO (modified Winkler titration test kit): 0.13 mg/L
Dissolved Ferrous Iron (*): 5.10 mg/L
Dissolved Reduced Manganese (*): 0.6 mg/L
Hydrogen Sulfide (as Sulfide) (*): 3.128 mg/L
*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- 28I -F1

CO2 220 mg/L

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tony Nyack

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS- 29D -01
Sample Location: MS- 29D
Sampled By: CS & TR
C.O.C. No.: 00425
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2/17/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1140	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR							NA

PURGE DATA:

Date: 2/17/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 26.0								
Well Casing Diameter & Material Type: 2Φ" S.S. Screen S. Riser								
Total Well Depth (TD): 114.7								
Static Water Level (WL): 18.85			SEE LOW FLOW PURGE DATA SHEET					
One Saturated Casing Volume(gal/L): 3.1								
Start Purge (hrs): 1000								
End Purge (hrs): 1135								
Total Purge Time (min): 95								
Total Vol. Purged (gal/L) 18.6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	15.05	°C
pH (YSI meter):	7.33	S.U.
ORP (YSI meter):	-179.9	mV
DO (modified Winkler titration test kit):	1.07	mg/L
Dissolved Ferrous Iron (*):	1.33	mg/L
Dissolved Reduced Manganese (*):	0.3	mg/L
Hydrogen Sulfide (as Sulfide) (*):	0.03	mg/L

*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- 29D -F1

CO2 100 mg/L

REMOVED 6 vol. to REDUCE TURB.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Terry Lovil

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS-295 -01
Sample Location: MS-295
Sampled By: CS/TR
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2/16/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1640	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME								NA

PURGE DATA:

Date: 2/16/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 2" Ø S.S. SCREEN S. RISER								
Total Well Depth (TD): 27.3								
Static Water Level (WL): 19.69			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L): SATURATED 5L								
Start Purge (hrs): 1515								
End Purge (hrs): 1640								
Total Purge Time (min): 85								
Total Vol. Purged (gal/L): 10								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	20.03	°C
pH (YSI meter):	6.95	S.U.
ORP (YSI meter):	-112.3	mV
DO (modified Winkler titration test kit):	1.99	mg/L
Dissolved Ferrous Iron (*):	0.69	mg/L
Dissolved Reduced Manganese (*):	0.8	mg/L
Hydrogen Sulfide (as Sulfide) (*):	0.0	mg/L

*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS-295 -F1

CO2 120 mg/L

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Ty Ryd

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS-29I -01
Sample Location: MS-29I
Sampled By: CS/TR
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2/16/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1355	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR							NA

PURGE DATA:

Date: 2/16/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 14.1								
Well Casing Diameter & Material Type: 2"Ø S.S. SCREEN S. RISER								
Total Well Depth (TD): 81.2								
Static Water Level (WL): 19.66			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L):								
Start Purge (hrs): 1215								
End Purge (hrs): 1350								
Total Purge Time (min): 95								
Total Vol. Purged (gal/L): 18.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	17.59 °C
pH (YSI meter):	7.10 S.U.
ORP (YSI meter):	171.3 mV
DO (modified Winkler titration test kit):	1.21 mg/L
Dissolved Ferrous Iron (*):	5.08 mg/L
Dissolved Reduced Manganese (*):	0.4 mg/L
Hydrogen Sulfide (as Sulfide) (*):	0.078 mg/L

*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS-29I -F1

CO2 115 mg/L

REMOVED 6 STATURATED VOL. TO BRING DOWN TURB. SAME VERY CLEAR.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Terry Hall

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS-29D -01
Sample Location: MS-29D
Sampled By: CS/TR
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2-16-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1030	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Bladder Pump	Yellow tint							NA

PURGE DATA:

Date: 2-	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 124.6								
Well Casing Diameter & Material Type: 2" ⌀ S.S. Screen S. Riser								
Total Well Depth (TD): 136.7								
Static Water Level (WL): 18.27			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L): SATURATED 3.1								
Start Purge (hrs): 0930								
End Purge (hrs): 1025								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 9.96								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	17.61	°C
pH (YSI meter):	7.26	S.U.
ORP (YSI meter):	-114.8	mV
DO (modified Winkler titration test kit):	2.42	mg/L
Dissolved Ferrous Iron (*):	0.25	mg/L
Dissolved Reduced Manganese (*):	0.3	mg/L
Hydrogen Sulfide (as Sulfide) (*):	.039	mg/L

*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS-29D -F1

CO2 100 mg/L

Took out AN EXTRA vol. (Saturated) to see if turb would drop. Color Yellow Tint

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Ted Angel

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS- 305 -01
Sample Location: MS- 305
Sampled By: SC/TR
C.O.C. No.: 00429
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2-24-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1105	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME								NA

PURGE DATA:

Date: 2-24-98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 2" S.S. Screen								
Type: 2" S. Riser								
Total Well Depth (TD): 27.5								
Static Water Level (WL): 19.35			SEE LOW FLOW PURGE DATA SHEET					
One Saturated Casing Volume(gal/L): 5								
Start Purge (hrs): 1000								
End Purge (hrs): 1100								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 11.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	12.91 °C	Filtered TAL Metals Sample ID No.:	003-MS- 305 -F1
pH (YSI meter):	7.64 S.U.		
ORP (YSI meter):	75.6 mV	CO2	35 mg/L
DO (modified Winkler titration test kit):	6.49 mg/L		
Dissolved Ferrous Iron (*):	0.00 mg/L		
Dissolved Reduced Manganese (*):	0.00 mg/L		
Hydrogen Sulfide (as Sulfide) (*):	0.03 mg/L		

*Notes use of DR/700 Colorimeter

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS- 301 -01
Sample Location: MS- 301
Sampled By: SC/TR
C.O.C. No.: 00429
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2-24-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1500	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME								NA

PURGE DATA:

Date: 2-24-98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: BLADDER PUMP								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2"Φ S.S Screen & Riser								
Total Well Depth (TD): 67.8'								
Static Water Level (WL): 20.00			SEE LOW FLOW PURGE DATA SHEET					
One ~~Casing~~ SATURATED Volume(gal/L): 3.1								
Start Purge (hrs): 1340								
End Purge (hrs): 1450								
Total Purge Time (min): 70								
Total Vol. Purged (gal/L) 15.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	12.35 °C	Filtered TAL Metals Sample ID No.:	003-MS- 301 -F1
pH (YSI meter):	7.25 S.U.		
ORP (YSI meter):	-169.7 mV	CO2	60 mg/L
DO (modified Winkler titration test kit):	0.65 mg/L		
Dissolved Ferrous Iron (*):	1.61 mg/L	OVER PURGED to BRING down TURB.	
Dissolved Reduced Manganese (*):	0.6 mg/L		
Hydrogen Sulfide (as Sulfide) (*):	0.384 mg/L		

*Notes use of DR/700 Colorimeter

Circle if Applicable:

MS/MSD

Duplicate ID No.:

INORGANIC only (i.e. METALS & CYANIDE)

Signature(s):

Terry Rojahn

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[X] QA Sample Type: MS/MSD

Sample ID No.: 003-MS- 30D -01
Sample Location: MS- 30D
Sampled By: SC/TR
C.O.C. No.: 00438 & 00437
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 3/3/98	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1130								
Method: SAME								NA

PURGE DATA:

Date: 3/3/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 2"Φ S.S. Screen S. Riser								
Total Well Depth (TD): 99.4								
Static Water Level (WL): 19.77			SEE LOW FLOW PURGE DATA SHEET					
One ~~Casing~~ Saturated Volume(gal/L): 3.1								
Start Purge (hrs): 1040								
End Purge (hrs): 1120								
Total Purge Time (min): 40								
Total Vol. Purged (gal/L) ~~6.5~~ 7.6								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(7) ~~(3)~~ 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(4) ~~(2)~~ 1L Amber Glass	Laucks
TCL PCBs	NA	(4) ~~(2)~~ 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(2) ~~(1)~~ 1L HDPE	Laucks
Hardness	HNO3	(1) 1L (TR) ~~(1) 250ml~~ HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(2) ~~(1)~~ 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(2) ~~(1)~~ 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(2) ~~(1)~~ 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter): 11.42 °C
pH (YSI meter): 7.37 S.U.
ORP (YSI meter): -202.1 mV
DO (modified Winkler titration test kit): 1.65 mg/L
Dissolved Ferrous Iron (*): 3.10 mg/L
Dissolved Reduced Manganese (*): 0.3 mg/L
Hydrogen Sulfide (as Sulfide) (*): 0.142 mg/L
*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- 30D -F1

CO2 45 mg/L

Circle if Applicable:

MS/MSD Full

Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS- 31S -01
Sample Location: MS- 31S
Sampled By: CS & TR
C.O.C. No.: 00425
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2/17/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1510	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	CLEAR							NA

PURGE DATA:

Date: 2/17/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 3.7								
Well Casing Diameter & Material Type: 2Q " S.S. SCREEN S. RISER								
Total Well Depth (TD): 27.50								
Static Water Level (WL): 19.82			SEE LOW FLOW PURGE DATA SHEET					
~~One Casing~~ SATURATED Volume(gal/L): 4.7								
Start Purge (hrs): 1400								
End Purge (hrs): 1500								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 9.7								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	20.65 °C	Filtered TAL Metals Sample ID No.:	003-MS- 31S -F1
pH (YSI meter):	6.78 S.U.		
ORP (YSI meter):	-116.0 mV	CO2 150 mg/L	
DO (modified Winkler titration test kit):	3.12 mg/L		
Dissolved Ferrous Iron (*):	2.31 mg/L		
Dissolved Reduced Manganese (*):	1.3 mg/L		
Hydrogen Sulfide (as Sulfide) (*):	0.012 mg/L		

*Notes use of DR/700 Colorimeter

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tay Rogel

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS-31I -01
Sample Location: MS-31I
Sampled By: CS/TK
C.O.C. No.: 00427
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2-18-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1020	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME	Clear	7.05	1876.0	18.71	4.9	0.17	NA	NA

PURGE DATA:

Date: 2-18-98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 0.1								
Well Casing Diameter & Material Type: 2" Ø S.S. Screen S. Riser								
Total Well Depth (TD): 67.8								
Static Water Level (WL): 19.83			SEE LOW FLOW PURGE DATA SHEET					
One ~~Casing~~ Saturated Volume(gal/L): 3.1								
Start Purge (hrs): 0900								
End Purge (hrs): 1015								
Total Purge Time (min): 75								
Total Vol. Purged (gal/L): 15.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	18.71	°C
pH (YSI meter):	7.05	S.U.
ORP (YSI meter):	-169.6	mV
DO (modified Winkler titration test kit):	0.17	mg/L
Dissolved Ferrous Iron (*):	5.10	mg/L
Dissolved Reduced Manganese (*):	5.7	mg/L
Hydrogen Sulfide (as Sulfide) (*):	0.92	mg/L

*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS-31I -F1

CO2 155 mg/L

3 Extra vol. purged to reduce Turb.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Terry Rock

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS- 31D -01
Sample Location: MS- 31D
Sampled By:
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2/26/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1530	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME								NA

PURGE DATA:

Date: 2/26/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 6.9								
Well Casing Diameter & Material Type: 2"ø S.S. Screen S. Riser								
Total Well Depth (TD): 127.2								
Static Water Level (WL): 18.39			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L): SATURATED 3.1								
Start Purge (hrs): 1355								
End Purge (hrs): 1525								
Total Purge Time (min): 90								
Total Vol. Purged (gal/L): 17.7								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:
Temperature (YSI meter): ____ °C
pH (YSI meter): ____ S.U.
ORP (YSI meter): ____ mV
DO (modified Winkler titration test kit): 1.02 mg/L
Dissolved Ferrous Iron (*): 1.51 mg/L
Dissolved Reduced Manganese (*): 0.4 mg/L
Hydrogen Sulfide (as Sulfide) (*): 0.072 mg/L
*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- 31D -F1
CO2 45 mg/L

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS-32 S -01
Sample Location: MS-32S
Sampled By: SC/TR
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Date: 2/27/98	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1230								
Method: SAME	CLEAR	6.96	1122.0	19.99	1.2	0.53	160.7	NA

PURGE DATA:

Date: 2/27/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 2" Ø S.S. SCREEN S. RISER								
Total Well Depth (TD): 26.1								
Static Water Level (WL): 20.31			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L): 3.7								
Start Purge (hrs): 1110								
End Purge (hrs): 1225								
Total Purge Time (min): 75								
Total Vol. Purged (gal/L): 7.9								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter): 19.99 °C
pH (YSI meter): 6.96 S.U.
ORP (YSI meter): -160.7 mV
DO (modified Winkler titration test kit): 2.46 mg/L
Dissolved Ferrous Iron (*): 3.87 mg/L
Dissolved Reduced Manganese (*): 0.7 mg/L
Hydrogen Sulfide (as Sulfide) (*): 0.0 mg/L
*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS-32S -F1

CO2 80 mg/L

Rapid Discharge

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS- 32 I -01
Sample Location: MS- 32 I
Sampled By: TR / SC
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3/2/98	Color	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Time: 1050	Visual	Standard	mS/cm	Degrees C	NTU	mg/l		NA
Method: SAME	CLEAR	7.16	1251.0	18.12	9.7	.45	-194.1	NA

PURGE DATA:

Date: 3/2/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 13.8								
Well Casing Diameter & Material Type: 2" Φ SS Screen S. Riser								
Total Well Depth (TD): 84.8								
Static Water Level (WL): 28.02			SEE LOW FLOW PURGE DATA SHEET					
One ~~Casing~~ Saturated Volume(gal/L): 3.1								
Start Purge (hrs): 0915								
End Purge (hrs): 1045								
Total Purge Time (min): 90								
Total Vol. Purged (gal/L): 18.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	18.12	°C
pH (YSI meter):	7.16	S.U.
ORP (YSI meter):	-194.1	mV
DO (modified Winkler titration test kit): 2.77	2.79	mg/L
Dissolved Ferrous Iron (*): 5.10;	5.10	mg/L
Dissolved Reduced Manganese (*): 5.8;	5.1	mg/L
Hydrogen Sulfide (as Sulfide) (*): .030;	0.049	mg/L

*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- 32 I -F1

CO2 125/115 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:
	003-MS-DP2-02 & 003-MS-DP2-F2

Signature(s):

Terry Rash

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS- 32D -01
Sample Location: MS- 32D
Sampled By: SCITR
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3/2/98	Color	pH	S.C.	Temp.	Turbidity	DO	~~Salinity~~ ORP	Other
Time: 1435	Visual	Standard	mS/cm	Degrees C	NTU	mg/l		NA
Method: SAME	CLEAR	7.41	901.0	18.04	11.5	.33	-165.9	NA

PURGE DATA:

Date: 3/2/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 1.1								
Well Casing Diameter & Material Type: 2" & 5.5 Screen 5. Riser								
Total Well Depth (TD): 126.2								
Static Water Level (WL): 27.26			SEE LOW FLOW PURGE DATA SHEET					
One ~~Casing~~ Saturated Volume(gal/L): 3.1								
Start Purge (hrs): 1255								
End Purge (hrs): 1430								
Total Purge Time (min): 95								
Total Vol. Purged (gal/L): 19.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	18.04 °C	Filtered TAL Metals Sample ID No.:	003-MS- 32D -F1
pH (YSI meter):	7.41 S.U.		
ORP (YSI meter):	-165.9 mV	CO2	40 mg/L
DO (modified Winkler titration test kit):	1.02 mg/L		
Dissolved Ferrous Iron (*):	0.94 mg/L		
Dissolved Reduced Manganese (*):	0.2 mg/L		
Hydrogen Sulfide (as Sulfide) (*):	0.022 mg/L		

*Notes use of DR/700 Colorimeter

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Terry Royal

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS- 335 -01
Sample Location: MS- 335
Sampled By: SC / TR
C.O.C. No.: 00431 / 000430
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2/25/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1025	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME								NA

PURGE DATA:

Date: 2/25/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 0.3								
Well Casing Diameter & Material Type: 2"Ø 5.5 Screen 5. Riser								
Total Well Depth (TD): 27.1								
Static Water Level (WL): 20.20			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L): 4.3								
Start Purge (hrs): 0915								
End Purge (hrs): 1015								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 9.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	19.83 °C	Filtered TAL Metals Sample ID No.:	003-MS- 335 -F1
pH (YSI meter):	7.53 S.U.		
ORP (YSI meter):	-177.5 mV	CO2	35 mg/L
DO (modified Winkler titration test kit):	3.53 mg/L		
Dissolved Ferrous Iron (*):	0.54 mg/L		
Dissolved Reduced Manganese (*):	0.0 mg/L		
Hydrogen Sulfide (as Sulfide) (*):	0.043 mg/L		

*Notes use of DR/700 Colorimeter

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Terry Taylor

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS- 331 -01
Sample Location: MS- 331
Sampled By: SC/TR
C.O.C. No.: 00431 / 00430
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2/25/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1400	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Bladder Pump								NA

PURGE DATA:

Date: 2/25/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 40.2								
Well Casing Diameter & Material Type: 2" Ø S.S. Screen & S.S. Riser								
Total Well Depth (TD): 75.9								
Static Water Level (WL): 20.29			SEE LOW FLOW PURGE DATA SHEET					
One ~~Casing~~ SATURATED Volume(gal/L): 3.1								
Start Purge (hrs): 1225								
End Purge (hrs): 1350								
Total Purge Time (min): 85								
Total Vol. Purged (gal/L): 18.2								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	17.78	°C
pH (YSI meter):	7.32	S.U.
ORP (YSI meter):	-210.9	mV
DO (modified Winkler titration test kit): 0.75 /	0.87	mg/L
Dissolved Ferrous Iron (*): 5.10	5.10	mg/L
Dissolved Reduced Manganese (*): 2.7	3.0	mg/L
Hydrogen Sulfide (as Sulfide) (*): 0.145	0.138	mg/L

*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- 331 -F1

CO2 115 / 120 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:
	~~MS~~ 003-ADP2-01 & 003-MS-DP2-F1

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: 003-MS-33D -01
Sample Location: MS-33D
Sampled By: SC/TA
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2/26/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1100	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: SAME								NA

PURGE DATA:

Date: 2/26/98	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Bladder Pump								
Monitor Reading (ppm): 3.0								
Well Casing Diameter & Material Type: 2"Ø S.S. Screen S.S. Riser								
Total Well Depth (TD): 120.3								
Static Water Level (WL): 20.05			SEE LOW FLOW PURGE DATA SHEET					
One ~~Casing~~ SATURATED Volume(gal/L): 3.1								
Start Purge (hrs): 0920								
End Purge (hrs): 1050								
Total Purge Time (min): 90								
Total Vol. Purged (gal/L): 19.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	17.80 °C	Filtered TAL Metals Sample ID No.:	003-MS-33D -F1
pH (YSI meter):	7.36 S.U.		
ORP (YSI meter):	-168.5 mV	CO2	45 mg/L
DO (modified Winkler titration test kit):	0.81 mg/L		
Dissolved Ferrous Iron (*):	0.86 mg/L		
Dissolved Reduced Manganese (*):	0.0 mg/L		
Hydrogen Sulfide (as Sulfide) (*):	0.048 mg/L		

*Notes use of DR/700 Colorimeter

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Terry Gill

APPENDIX A.2

LOW FLOW PURGE DATA SHEETS

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966
WELL ID.: MW-MS-28S
DATE: 2-11-98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (%Sat. / mV)	Comments (e.g. accumulated volume)
1304	19.27	—	—	—	—	—	—	—	Start Pump
1305	19.27	150	6.51	917.00	46.9	8.87	18.07	—	150 ml
1310	19.27	220	6.78	925.00	—	6.71	17.02	-43.5	1100 / 1250
1315	19.28	210	6.74	924.00	—	3.02	16.83	-48.7	1050/2300
1320	19.28	200	6.74	920.00	0.1	0.88	16,83	-55.1	1000 Clean Turb. sensor
1325	19.28	110	6.75	917.00	0.9	0.89	17.44	-54.0	550 /3850
1330	19.28	200	6.76	915.00	0.8	1.80	16.86	-61.2	1000/4850
1335	19.28	210	6.77	915.00	0.0	2.08	16.79	-65.8	1050/5900
1340	19.28	200	6.78	914.00	-0.3	1.87	16.88	-65.9	1000/6900
1345	19-28	200	6.78	913.00	-0.3	1.76	16.90	-66.2	1000/7900
1350	19.28	200	6.79	913.00	0.0	1.61	16.89	-68.2	1000/8900
1355	19.28	200	6.79	912.00	0.1	0.73	16.94	-67.4	1000/9900
1400	19.28	200	6.79	913.00	0.2	0.61	16.90	-68.7	1000/10,900 ml.

SIGNATURE(S):

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II) WELL ID.: MW- MS-28I
PROJECT NUMBER: 6966 DATE: _____

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal (PSU)~~ ORP (mV)	Comments (e.g. accumulated volume)
1555	19.24	—	—	—	—	—	—	—	Start Pump
1600	19.24	40	7.60	452.0	86.1	7.10	20.43	74.8	200ml
1605	19.24	(TA) 1000 200	7.20	1073.0	121.4	4.49	16.10	-119.9	1200
1610	19.24	(TA) 1600 200	7.18	1385.0	57.0	1.07	15.66	-157.3	2200
1615	19.24	154	7.20	1401.0	33.6	0.82	16.05	-161.5	2970
1620	19.24	190	7.21	1441.0	31.8	0.71	15.72	-163.4	3820
1625	19.24	200	7.22	1440.0	16.5	0.51	15.11	-165.3	4920
1630	19.24	126	7.23	1440.0	15.2	0.47	15.04	-165.4	5550
1635	19.24	210	7.23	1436.0	11.4	0.44	14.99	-165.7	6600
1640	19.24	240	7.22	1432.0	5.6	0.41	14.98	-165.5	7800
1645	19.24	200	7.22	1427.0	4.5	0.40	14.96	-165.3	8800

SIGNATURE(S): _____ PAGE__ OF__

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966

WELL ID.: TB ~~MW~~ MS-28D
DATE: 2/17/98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal.~~ ORP (mV) ~~(%)~~ TR	Comments (e.g. accumulated volume)
1000	18.85	100	6.43	624.00	10.1	3.32	17.14	107.6	100/100 Start Purge
1005	18.85	180	6.66	723.00	403.8	1.50	15.81	98.3	900/1000
1010	18.85	116	7.06	861.00	430.7	2.25	15.65	-35.3	580/1580
1015	18.85	170	7.16	904.00	205.4	1.28	15.75	-178.2	850/2430
1020	18.85	192	7.24	914.00	149.7	0.84	15.52	-194.3	960/3390
1025	18.85	206	7.29	917.00	143.5	0.65	15.26	-197.6	1030/4420
1030	18.85	210	7.32	919.00	224.4	0.52	15.12	-197.1	1050/5470
1035	18.85	164	7.33	917.00	262.8	0.51	15.46	-189.7	820/6290
1040	18.85	230	7.35	920.00	250.5	0.41	14.99	-190.1	1150/7440
1045	18.85	220	7.35	919.00	196.7	0.39	15.06	-185.0	1100/8540
1050	18.85	190	7.35	916.00	175.5	0.37	15.14	-186.2	950/9490
1055	18.85	194	7.35	917.00	146.7	0.36	15.11	-187.2	970/10,460
1100	18.85	220	7.35	917.00	110.5	0.34	15.14	-186.3	1100/11,560
1105	18.85	194	7.35	916.00	91.6	0.33	15.11	-184.3	970/12,530
1110	18.85	190	7.35	915.00	67.8	0.32	15.08	-184.2	950/13,480
1115	18.85	220	7.35	914.00	45.8	0.31	15.08	-182.2	1100/14,580
1120	18.85	194	7.34	914.00	40.9	0.30	15.08	-182.2	970/15,550
1125	18.85	194	7.34	913.00	36.5	0.30	15.05	-181.6	970/16,520
1130	18.85	220	7.34	912.00	28.6	0.29	15.05	-180.7	1100/17,620
1135	18.85	196	7.33	912.00	25.6	0.28	15.05	-179.9	980/18,600

SIGNATURE(S): _____

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966
WELL ID.: MW-MS-295
DATE: 12/16/98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal. (%)~~ ORP (mv)	Comments (e.g. accumulated volume)
15:15	19.69	Start	7.11	1158.0	13.4	5.39	21.52	-80.0	Start Purge
15:20	19.68	88	7.01	1175.0	56.1	1.66	20.53	-112.8	440/440
15:25	19.66	110	7.00	1175.0	43.8	1.00	20.30	-119.3	550/990
15:30	19.66	110	6.99	1173.0	23.2	0.75	20.21	-120.1	550/1540
1535	19.69	120	6.99	1172.0	12.0	0.60	20.19	-119.7	600/2140
1540	19.69	120	6.99	1174.0	7.3	0.60	20.18	-119.3	600/2740
1545	19.69	110	6.98	1177.0	4.4	0.57	20.14	-118.6	550/3290
1550	19.69	100	6.98	1179.0	2.6	0.55	20.15	-118.0	500/3790
1555	19.69	124	6.98	1180.0	1.9	0.54	20.12	-117.1	620/4410
1600	19.69	124	6.97	1182.0	1.1	0.51	20.07	-116.4	620/5030
1605	19.69	124	6.96	1183.0	1.1	0.48	20.07	-116.0	620/5650
1610	19.69	124	6.96	1183.0	0.8	0.47	20.06	-116.0	620/6270
1615	19.69	124	6.96	1184.0	0.4	0.46	20.04	-115.0	620/6890
1620	19.69	124	6.96	1184.0	0.3	0.45	20.02	-115.5	620/7510
1625	19.69	124	6.95	1185.0	0.3	0.45	20.02	-114.7	620/8130
1630	19.69	124	6.95	1186.0	0.3	0.44	20.05	-114.2	620/8750
1635	19.69	124	6.95	1186.0	0.2	0.43	20.06	-113.0	620/9370
1640	19.69	124	6.95	1186.0	0.0	0.43	20.03	-112.3	620/9990
~~1645~~									
									Water clear
									Sample at 16:40

SIGNATURE(S): _____

PAGE__ OF__

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966
WELL ID.: MW- MS-29I
DATE: 12/16/98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal.~~ ORP (+/- 1%) (mV)	Comments (e.g. accumulated volume)
12:15	19.68	start	7.32	613.00	98.7	3.63	21.51	47.3	Start Purge
12.20	19.68	200	7.16	1036.0	512.4	2.32	18.18	-104.3	1,000 / 1,000
12:25	19.68	192	7.14	1124.0	268.6	0.90	18.23	-156.5	960 / 1960
12:30	19:68	64	7.16	1126.0	206.1	0.81	18.94	-175.4	320/2280
12:35	19:68	200	7.15	1137.0	156.1	0.52	18.78	-181.7	1000/3280
12:40	19.68	196	7.14	1133.0	123.2	0.42	18.13	-174.5	980/4260
12:45	19.68	240	7.13	1132.0	68.9	0.36	17.93	-172.7	1200/5460
12:50	19.68	188	7.12	1130.0	61.2	0.34	18.07	-171.6	940/6400
12:55	19.68	190	7.12	1129.0	56.7	0.33	18.06	-171.0	950/7350
1300	19.68	190	7.11	1127.0	48.0	0.31	18.09	-169.7	950/8300
1305	19.68	186	7.11	1126.0	45.6	0.30	18.10	-169.10	930/9230
1310	19.68	196	7.11	1125.0	43.3	0.29	18.01	-169.1	980/10,210
1315	19.68	184	7.10	1125.0	35.2	0.29	18.12	-170.3	920/11,130
1320	19.68	170	7.10	1125.0	32.6	0.28	18.18	-170.9	850/11,980
1325	19.68	164	7.10	1125.0	34.5	0.28	18.24	-171.1	820/12,800
1330	19.68	204	7.10	1125.0	34.8	0.28	18.01	-171.6	1020/13,820
1335	19.68	220	7.10	1123.0	30.1	0.25	17.60	-171.4	1100/14.920
1340	19.68	220	7.10	1121.0	28.5	0.24	17.65	-171.5	1100/16,020
1345	19.68	210	7.10	1122.0	21.9	0.24	17.64	-171.7	1050/17,070
1350	19.68	220	7.10	1120.0	18.7	0.23	17.59	-171.3	1100/18,170
									CLEAR WATER

SIGNATURE(S): _____

PAGE___OF___

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966
WELL ID.: ~~MW-~~ MS-29D
DATE: 2-16-98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sat.~~ ORP (mV) (%)	Comments (e.g. accumulated volume)
0930	18.27	Start	6.36	998.0	60.7	1.95	19.44	132.1	Start Purge
0935	18.27	200	7.02	1005.0	120.3	1.56	18.01	63.2	1000/1000
0940	18.28	154	7.19	1021.0	138.7	2.13	18.60	51.4	770/1770
0945	18.28	164	7.21	1053.0	65.9	1.27	18.15	-48.1	820/2590
0950	18.28	176	7.22	1058.0	38.4	0.92	17.98	-79.7	880/3470
0955	18.29	186	7.23	1061.0	32.4	0.72	17.93	-92.4	930/4400
1000	18.29	176	7.24	1061.0	33.6	0.62	17.93	-99.0	880/5280
1005	18.29	174	7.24	1062.0	35.0	0.55	17.92	-103.8	870/6150
1010	18.29	180	7.25	1062.0	34.8	0.49	17.90	-107.8	900/7050
1015	18.29	190	7.25	1061.0	40.3	0.45	17.82	-111.3	950/8000
1020	18.29	196	7.26	1061.0	32.5	0.42	17.66	-113.4	980/8980
1025	18.29	196	7.26	1060.0	39.8	0.40	17.61	-114.8	980/9960
									Water Color: Yellowish Brown tint

SIGNATURE(S): _____

PAGE 1 OF 1

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II) WELL ID.: MW- MS30S
PROJECT NUMBER: 6966 DATE: 2-24-98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sat.~~ ORP (mV) (%)	Comments (e.g. accumulated volume)
0940	19.35								
1000			7.17	482	150	8.22	10.76	80.9	
1005	19.35	164	7.62	500	472	6.37	12.82	75.0	820
1010		190	7.72	501	224	7.13	12.91	71.2	950 / 1770
1015	19.35	192	7.74	499	79.8	7.29	13.02	70.7	960 / 2730
1020		192	7.74	498	40.7	7.14	13.01	71.1	960 / 3690
1025	19.35	192	7.74	499	36.0	7.12	12.90	71.3	960 / 4650
1030		164	7.72	498	26.3	7.15	12.96	71.9	820 / 5470
1035	19.35	192	7.70	499	18.4	7.14	12.95	72.8	960 / 6430
1040		190	7.68	499	13.1	7.22	12.90	72.9	950 / 7380
1045	19.35	190	7.66	500	12.0	7.21	12.94	73.5	950 / 8330
1050		190	7.66	500	9.0	7.15	12.90	74.2	950 / 9280
1055	19.35	190	7.65	500	5.8	7.15	12.93	74.8	950 / 10230
1100		190	7.64	500	4.5	7.11	12.91	75.6	950 / 11180

SIGNATURE(S): SJ Conti

PAGE ___ OF ___

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966
WELL ID.: MW- MS30I
DATE: 2/24/98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sat.~~ ORP (mV)	Comments (e.g. accumulated volume)
1330	20.00								
1340		INI PDG	7.95	467	409	7.90	10.87	-24.1	START TO PUMP
1345	20.00	160	7.42	609	482.8	4.40	12.47	-143.7	800
1350		200	7.39	763	104.9	1.64	12.48	-191.6	1000 / 1800
1355	20.00	236	7.37	790	41.7	.91	12.44	-188.7	850 + 330 = 1180 / 2980
1400		172	7.36	791	29.2	.69	12.43	-188.7	860 / 3840
1405	20.00	236	7.34	791	21.6	.57	12.44	-184.1	1000 + 180 = 1180 / 5020
1410		234	7.31	791	18.5	.52	12.42	-178.4	1000 + 170 = 1170 / 6190
1415	20.00	206	7.29	793	17.8	.49	12.41	-175.1	860 + 170 = 1030 / 7220
1420		236	7.28	795	15.3	.47	12.39	-173.8	1000 + 180 = 1180 / 8400
1425	20.00	236	7.27	798	13.8	.45	12.39	-173.3	1010 + 170 = 1180 / 9580
1430		204	7.27	799	13.0	.44	12.38	-172.6	1020 / 10600
1435	20.00	240	7.26	800	12.5	.42	12.38	-171.7	850 + 350 = 1200 / 11800
1440		206	7.26	802	13.0	.41	12.38	-171.4	850 + 180 = 1030 / 12830
1445	20.00	240	7.26	802	12.5	.40	12.37	-171.2	850 + 350 = 1200 / 14030
1450		238	7.25	803	10.3	.39	12.35	-169.7	1020 + 170 = 1190 / 15220

SIGNATURE(S): SJ Conti

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966

WELL ID.: MW- MS30D
DATE: 3/3/98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal.~~ ORP (mV) ~~(%)~~	Comments (e.g. accumulated volume)
1040	19.77								
1045			7.63	1268.0	119.3	7.09	9.52	-150.6	INITIAL 130
1050		138	7.38	1284.0	59.5	2.50	11.55	-219.8	690 /820
1055	19.77	206	7.50	1314.0	15.7	1.59	11.42	-236.8	1030 /1850
1100		242	7.55	1314.0	6.1	1.22	11.47	-247.4	860+350=1210/3060
1105		242	7.54	1311.0	1.3	1.10	11.45	-237.7	860+350=1210/4270
1110	19.78	210	7.47	1308.0	.8	1.04	11.46	-223.5	860+190 = 1050/5320
1115		242	7.41	1307.0	.6	1.01	11.40	-208.9	860+350=1210/6530
1120	19.78	210	7.37	1305.0	.3	1.00	11.42	-202.1	860+190 = 1050/7580
									Sample @ 1130 HRS

SIGNATURE(S): [signature]

PAGE 1 OF 1

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966

WELL ID.: MW- M5-315
DATE: 2/17/98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal.~~ ORP (mV) ~~(%)~~	Comments (e.g. accumulated volume)
1400	19.82	—	7.23	1102.0	39.3	5.12	21.14	-7.8	Start Purge
1405	19.83	168	6.91	1145.0	45.4	1.52	20.75	-71.1	840/840
1410	19.83	160	6.84	1154.0	28.6	0.90	20.69	-86.0	800/1640
1415	19.83	172	6.83	1159.0	17.9	0.85	20.69	-93.8	860/2500
1420	19.83	170	6.81	1171.0	8.6	0.65	20.67	-100.1	850/3350
1425	19.83	140	6.80	1178.0	4.6	0.59	20.65	-106.0	700/4050
1430	19.83	170	6.80	1182.0	2.5	0.56	20.64	-111.9	850/4900
1435	19.83	170	6.79	1186.0	2.2	0.53	20.65	-115.4	850/5750
1440	19.83	132	6.79	1190.0	1.3	0.52	20.63	-115.8	660/6410
1445	19.83	170	6.79	1192.0	0.5	0.55	20.64	-115.1	850/7260
1450	19.83	170	6.79	1193.0	0.4	0.48	20.64	-115.3	850/8110
1455	19.83	148	6.79	1194.0	0.2	0.47	20.65	-115.7	740/8850
1500	19.83	170	6.78	1195.0	-0.2	0.46	20.65	-116.0	850/9700
									Water Clear

SIGNATURE(S): _____

PAGE_ OF___

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966
WELL ID.: MW- MS-31 I
DATE: 2/18/99

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sat~~ ORP ~~(%)~~ (mV)	Comments (e.g. accumulated volume)
0900	19.83	—	6.99	606.00	133.8	1.55	21.04	-12.5	Start Purge
0905	19.88	186	7.02	866.00	274.8	1.44	19.51	-120.1	930/930
0910	19.88	182	6.94	1573.0	156.5	0.88	19.30	-162.4	910/1840
0915	19.87	192	6.98	1803.0	62.0	0.56	19.09	-166.3	910/2750
0920	19.87	220	7.01	1851.0	27.2	0.45	18.91	-165.9	1100/3850
0925	19.87	180	7.03	1871.0	31.6	0.40	18.88	-166.7	900/4750
0930	19.88	194	7.03	1878.0	15.7	0.36	18.93	-167.3	970/5720 (Clear Turb.)
0935	19.86	190	7.03	1884.0	12.9	0.34	18.80	-167.5	950/6670
0940	19.86	248	7.04	1883.0	10.3	0.32	18.83	-167.7	1240/7910
0945	19.86	190	7.04	1884.0	11.7	0.31	18.83	-168.0	950/8860
0950	19.86	228	7.04	1881.0	9.8	0.30	18.82	-168.3	1140/10,000
0955	19.86	194	7.04	1880.0	9.1	0.30	18.78	-168.5	970/10,970
1000	19.76	230	7.05	1880.0	7.4	0.28	18.77	-168.8	1150/12,120
1005	19.86	194	7.05	1878.0	7.0	0.28	18.73	-169.1	970/13,090
1010	19.86	240	7.05	1876.0	6.8	0.27	18.72	-169.3	1200/14,290
1015	19.86		7.05	1876.0	4.9	0.27	18.71	-169.6	1200/15,490
									Water : Clear

SIGNATURE(S): _____

PAGE___OF___

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II) WELL ID.: MW- MS 31 D
PROJECT NUMBER: 6966 DATE: 2/26/98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sat.~~ ORP (mV) ~~(%)~~	Comments (e.g. accumulated volume)
1350	18.39								
1355		INITIAL	8.16	693.0	59.7	4.43	21.22	33.2	START PUMP
1400		"	7.90	749.0	69.1	1.58	20.60	-117.6	470
1405	18.39	190	7.67	777.0	168.9	.73	19.59	-133.2	950 1420
1410		192	7.53	890.0	167.6	.92	19.25	-195.7	960 2380
1415		228	7.54	923.0	89.8	.50	19.12	-225.7	970+170=1140/3520
1420	18.39	194	7.55	941.0	69.4	.86	19.00	-229.5	970 4490
1425		164	7.54	945.0	57.6	1.47	18.94	-228.7	1110+650=820/5310
1430	18.39	196	7.52	946.0	53.9	.38	18.89	-225.9	980 /6290
1435		230	7.51	946.0	114.8	.47	18.79	-223.1	980+170=1150/7440
1440	18.39	198	7.49	945.0	33.7	.34	18.75	-220.0	990 /8430
1445		198	7.47	945.0	25.8	.31	18.74	-216.9	990 /9420
1450		198	7.46	944.0	17.3	.30	18.70	-214.2	990 /10410
1455	18.39	232	7.45	943.0	13.5	.29	18.68	-211.3	990+170=1160/11570
1500		198	7.44	943.0	11.4	.28	18.66	-209.4	990 12560
1505		198	7.43	942.0	8.5	.28	18.62	-208.0	990 13550
1510	18.39	198	7.43	942.0	8.2	.27	18.60	-206.9	990 14540
1515		232	7.42	941.0	8.6	.27	18.61	-205.4	990+170=1160/15700
1520		198	7.42	940.0	5.9	.26	18.60	-204.5	990 16690
1525	18.39	198	7.41	940.0	5.1	.26	18.55	-203.9	990 17680
									SAMPLED @ 1530 HRS

SIGNATURE(S): SJ Corrette

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966
WELL ID.: MW- MS32S
DATE: 2-27-98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal.~~ ORP (mV) ~~(%)~~	Comments (e.g. accumulated volume)	
1055	20.31									
1110		START								
1115	20-31	INITIAL	7.10	1003.0	15.2	5.80	20.07	-75.9		
1120		50	6.94	1088.0	28.0	3.56	19.98	-139.6	250	
1125	20.31	116	6.88	1170.0	31.4	1.84	19.95	-149.3	580	830
1130		132	6.90	1163.0	20.9	1.18	19.92	-154.6	660	1490
1135	20.31	118	6.91	1146.0	13.3	.83	19.94	-157.6	590	2080
1140		126	6.93	1137.0	9.5	.74	19.86	-159.2	630	2710
1145	20.31	116	6.94	1131.0	5.0	.68	19.88	-159.8	580	3290
1150		124	6.95	1128.0	4.5	.64	19.92	-159.2	620	2910
1155	20.31	122	6.97	1125.0	2.7	.61	19.94	-161.0	610	4520
1200		110	6.96	1124.0	2.0	.59	19.94	-160.7	550	5070
1205	20.31	120	6.96	1123.0	2.3	.58	19.93	-160.6	600	5670
1210		110	6.95	1122.0	1.7	.55	19.95	-160.7	550	6220
1215		106	6.96	1122.0	1.6	.54	19.96	-160.7	530	6750
1220		114	6.96	1122.0	1.3	.54	19.98	-160.8	570	7320
1225	20.31	116	6.96	1122.0	1.2	.53	19.99	-160.7	580	7900
1230										
									SAMPLE TIME @ 1230 HRS	

SIGNATURE(S): SJConti

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966
WELL ID.: MW- MS32I
DATE: 3-2-98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal.~~ ORP (mV) ~~(%)~~	Comments (e.g. accumulated volume)
0910	28.02								
0915		START	7.78	540.0	16.8	3.04	19.41	17.1	INITIAL
0920	28.02	INITIAL	7.63	495.0	51.2	1.56	19.00	2.7	360
0925		236	7.09	1126.0	232.7	1.12	18.36	-182.7	1000+180=1180/1540
0930	28.02	200	7.11	1211.0	128.4	.77	18.32	-196.7	1000 /2540
0935		236	7.12	1227.0	54.7	.66	18.30	-196.1	1000+1180=1180/3720
0940	28.05	200	7.13	1231.0	37.6	.62	18.29	-195.6	1000 /4720
0945		234	7.14	1234.0	28.8	.58	18.25	-194.1	1000+170=1170/5890
0950	28.07	198	7.14	1236.0	23.3	.56	18.25	-194.9	990 /6880
0955		198	7.14	1239.0	16.3	.54	18.23	-195.1	990 /7870
1000		232	7.15	1240.0	16.8	.77	18.21	-194.9	990+170=1160/9030
1005		200	7.15	1241.0	18.2	.53	18.19	-193.6	1000 /10030
1010	28.07	234	7.15	1243.0	18.5	.50	18.18	-194.2	1000+170=1170/11200
1015		200	7.15	1244.0	16.9	.49	18.18	-194.4	1000 /12200
1020	28.07	196	7.15	1245.0	17.1	.48	18.18	-194.1	980 /13180
1025		234	7.16	1246.0	16.0	.47	18.13	-194.5	1000+170+1170/14350
1030	28.07	196	7.16	1247.0	17.0	.47	18.13	-193.9	980 /15330
1035		236	7.16	1249.0	11.2	.46	18.13	-193.5	1000+180=1180/16510
1040	28.07	198	7.16	1250.0	8.9	.46	18.13	-193.9	990 /17500
1045		200	7.16	1251.0	9.7	.45	18.12	-194.1	1000 /18500
									Sample @ 1050
									See SLS'

SIGNATURE(S): SJ Conti

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II) WELL ID.: MW- MS32D
PROJECT NUMBER: 6966 DATE: 3/2/98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal.~~ ORP (mV) (%)	Comments (e.g. accumulated volume)
1250	27.26								
1255		INITIAL	8.08	617.0	21.8	3.13	20.05	-33.9	START PUMP
1300		130	7.80	767.0	63.3	1.03	19.38	-56.2	650 INITIAL VOL.
1305	27.26	198	7.63	895.0	616.3	1.17	18.77	-150.9	990 1640
1310		198	7.53	906.0	330.8	.77	18.51	-173.6	990 2630
1315		232	7.46	907.0	81.5	.57	18.37	-169.9	990+170=1160/3790
1320	27.28	198	7.45	907.0	65.9	.48	18.30	-168.8	990 /4780
1325		198	7.44	906.0	48.4	.46	18.25	-169.2	990 /5770
1330		198	7.43	906.0	44.1	.44	18.23	-168.3	990 /6760
1335	27.28	198	7.43	905.0	36.1	.42	18.20	-167.2	990 /7750
1340		232	7.42	905.0	35.7	.40	18.17	-165.7	990+170=1160/8910
1345		198	7.42	906.0	34.6	.38	18.15	-164.7	990 /9700
1350		198	7.42	905.0	69.5?	.37	18.13	-164.8	990 /10890
1355	27.29	198	7.42	905.0	28.9	.36	18.12	-165.9	990 /11880
1400		232	7.42	904.0	25.8	.36	18.11	-167.4	990+170=1160/13040
1405		198	7.41	903.0	25.4	.35	18.09	-168.1	990 /14030
1410		198	7.41	903.0	23.9	.34	18.09	-167.5	990 /15020
1415	27.28	198	7.41	902.0	21.5	.34	18.08	-166.7	990 /16010
1420		198	7.41	901.0	13.2	.33	18.07	-165.7	990 /1700
1425		232	7.41	901.0	14.3	.33	18.06	-165.6	990+170=1160/18160
1430	27.28	198	7.41	901.0	11.5	.33	18.04	-165.9	990 /19150
									SAMPLE @ 1435
									SEE SLS.

SIGNATURE(S): S. Cottle

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966
WELL ID.: MW- MS33S
DATE: 2-25-98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal.~~ ORP (mV) (%)	Comments (e.g. accumulated volume)
0905	20.20								
0915									START PUMP
0920	20.20	—	7.01	457	8.9	6.14	20.74	-6.7	INITIAL RDG (CUM.) (TOT.)
0925		160	7.43	456	23.5	4.12	19.99	-99.0	800 /
0930	20.20	178	7.54	454	17.1	2.39	19.87	-156.2	890 / 1690
0935		178	7.57	452	8.8	1.54	19.85	-169.5	890 / 2580
0940	20.20	152	7.56	453	5.7	1.08	19.83	-178.4	760 / 3340
0945		176	7.55	453	4.0	.80	19.83	-182.2	880 / 4220
0950	20.20	176	7.55	453	3.3	.63	19.82	-181.3	880 / 5100
0955		178	7.55	453	2.8	.55	19.83	-184.1	890 / 5990
1000	20.20	176	7.54	455	2.3	.50	19.83	-181.6	880 / 6870
1005		172	7.54	456	2.0	.49	19.83	-180.9	860 / 7730
1010	20.20	174	7.53	457	1.8	.57	19.84	-179.0	870 / 8600
1015	20.20	176	7.53	458	1.1	.79	19.83	-177.5	880 / 9480

SIGNATURE(S): SJ Conti

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LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II)
PROJECT NUMBER: 6966
WELL ID.: MW- MS33I
DATE: 2-25-98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal.~~ ORP (mV) ~~(%)~~	Comments (e.g. accumulated volume)
1220	20.29								
1225		INITIAL	8.14	996.0	33.2	4.81	21.91	28.5	START PUMP / INITIAL
1230	20.29	100	7.69	1123.0	225.8	2.61	19.55	7.6	500 /
1235		236	7.40	1263.0	291.4	1.94	18.50	-211.6	1000 + 180 = 1180 / 1680
1240	20.45	222	7.44	1283.0	191.9	1.03	18.27	-242.5	1010 / 2690
1245		234	7.45	1291.0	113.5	.67	18.14	-240.7	1000 + 170 = 1170 / 3860
1250	20.60	202	7.43	1297.0	56.3	.79	18.09	-242.2	1010 / 4870
1255		238	7.41	1300.0	64.8	.74	18.03	-227.9	1010 + 180 = 1190 / 6060
1300	20.91	202	7.39	1300.0	64.3	.84	17.96	-223.7	1010 / 7070
1305		238	7.37	1299.0	71.3	.35	17.92	-220.4	1010 + 180 = 1190 / 8260
1310	21.35	238	7.36	1298.0	60.8	.84	17.91	-218.9	1010 + 180 = 1190 / 9450
1315		238	7.35	1297.0	69.0	.33	17.87	-216.3	1010 + 180 = 1190 / 10640
1320	21.60	174	7.34	1295.0	61.5	.31	18.09	-215.9	870 / 11510
1325		200	7.34	1296.0	59.0	.45	18.12	-214.6	1000 / 12510
1330	21.85	234	7.34	1297.0	49.7	.37	17.88	-214.7	1000 + 170 = 1170 / 13680
1335	21.75	200	7.32	1294.0	57.5	.29	17.84	-211.6	1000 / 14680
1340	21.95	200							1000 + 180 = 1180 / 15860
1345	21.93	200	7.32	1291.0	56.5	.27	17.79	-210.9	1000 + 180 = 1180 / 17040
1350		200	7.32	1291.0	54.5	.27	17.78		1000 + 180 = 1180 / 18220

SIGNATURE(S): SJ Conti

PAGE__OF__

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NIROP FRIDLEY (Phase II) WELL ID.: MW- MS 33D
PROJECT NUMBER: 6966 DATE: 2-26-98

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	~~Sal.~~ ORP ~~(%)~~ (mV)	Comments (e.g. accumulated volume)
0910	20.05								
0920		INITIAL	7.44	428.0	323.7	2.71	20.97	43.8	START
0925	20.07	204	7.50	524.0	298.5	.99	19.00	-101.1	1020
0930		230	7.34	784.0	356.5	1.27	18.42	-185.0	980+170=1150/2170
0935	20.06	196	7.32	849.0	77.2	.83	18.27	-189.7	980 /3150
0940		198	7.32	887.0	48.3	.53	18.18	-187.8	990 /4140
0945	20.07	232	7.34	895.0	29.5	.45	18.10	-186.5	990+170=1160/5300
0950		198	7.36	896.0	25.8	1.12	18.06	-185.4	990 /6290
0955		198	7.36	897.0	25.3	.42	18.03	-184.0	990 /7280
1000	20.06	232	7.36	897.0	20.0	.53	17.98	-181.9	990+170 =1160/8440
1005		198	7.36	897.0	17.0	.69	17.96	-179.3	990 /9430
1010	20.07	198	7.35	897.0	12.9	.47	17.94	-175.5	990 /10420
1015		232	7.35	896.0	13.0	.36	17.92	-175.0	990+170=1160/11580
1020		198	7.36	896.0	11.7	.34	17.90	-174.4	990 /12570
1025		198	7.36	895.0	9.8	.41	17.87	-172.3	990 /13560
1030	20.06	232	7.36	895.0	8.5	.33	17.86	-171.4	990+170=1160/14720
1035		198	7.35	894.0	9.0	.32	17.86	-170.5	990 /15710
1040		198	7.36	894.0	8.7	.30	17.83	-169.8	990 /16700
1045		232	7.36	894.0	8.7	.29	17.81	-170.0	990+170=1160/17860
1050	20.06	232	7.36	894.0	8.3	.31	17.80	-169.5	990+170=1160/19020
									SAMPLE TIME @ 1100 HRS.
									SEE SAMPLE LOG SHEET.

SIGNATURE(S): SJ Conti

PAGE__ OF__

APPENDIX A.3

SAMPLE LOG SHEETS FOR QUALITY ASSURANCE/QUALITY CONTROL SAMPLES - AMBIENT BLANKS

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[X] QA Sample Type: AMBIENT BLANK

Sample ID No.: ~~003-TW-~~ 003-AB-001-01
Sample Location: AOC-16
Sampled By: TK
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/26/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1630	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Direct Pour								NA

PURGE DATA:

Date: NA	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material:	2			NA				
Type:	3							
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	~~✓~~ TK

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft. Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

NEXT to AOC-16 → PAINT Booth

RICCA - DI (REAGENT GRADE) LOT # F042

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	TK

GROUNDWATER SAMPLE LOG SHEET

003-AB-002-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: ~~003-TW-~~ (TR)
Sample Location: AMBIENT BLANK
Sampled By: TR
C.O.C. No.: LTL-016
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/5/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1936	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Direct Pour								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2	NA						
Type:	3							
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	~~✓~~ (TR)
HEX. CHROMIUM	—	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft. Filtered TAL Metals Sample ID No.: 003-TW-NA-F1

Collected WHILE SAMPLING AOC-63, FOUNDRY AREA - ODOR PRESENT

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Terry Rogers

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[X] QA Sample Type: Ambient Blank

Sample ID No.: 003-TW-003-01 AB
Sample Location: GP02
Sampled By: TR
C.O.C. No.: LTL-023
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/19/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1325	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Direct Read	NA							NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type:	3		NA					
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
~~TAL Metals (Dissolved)~~	~~HNO3~~	~~(1) 1L HDPE~~	✓ TR

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft. Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

Collected during heavy facility & construct activity (active Golf Carts & heavy const. eq. in area).

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	TR Royal

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type:

Sample ID No.: 003-TW-~~AB~~ 004-01
Sample Location: Ambient BLANK @ Pit
Sampled By: TR
C.O.C. No.: LTL-038
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/8/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1742	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Direct Pour	NA							NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type:	3			NA				
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft. Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
~~[]~~ QA Sample Type: AMBIENT @ HEAT TREAT AREA

Sample ID No.: 003-AB-005-01 ~~003-TW-F1~~
Sample Location: AOC - 4L
Sampled By: TL
C.O.C. No.: LTL-044
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/19/07	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other:
Time: 1945	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Direct								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2				NA			
Type:	3							
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft.

Filtered TAL Metals Sample ID No.: 003-TW-NA-F1

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

003-AB-006-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-TW-~~ TR
Sample Location: Ambient Blank
Sampled By: TR
C.O.C. No.: LTC-044

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type: Ambient Blank - From Foundary Area ~ AOC-63

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/22/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1415	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Direct Pour								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1		NA					
Well Casing Diameter & Material	2							
Type:	3							
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	
TCL Semivolatiles	NA	(2) 1L Amber Glass	
TCL PCBs	NA	(2) 1L Amber Glass	
Cyanide	NaOH	(1) 500ml HDPE	
TAL Metals (Total)	HNO3	(1) 1L HDPE	
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
Hex. Chromium	None	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft.

Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

SOIL & SEDIMENT SAMPLE LOG SHEET

003-AB-007-01

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: ~~003-SB-~~ (TK)
Sample Location: MS-29D
Sampled By: TK
C.O.C. No.: 00411

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
QA Sample Type: AMBIENT BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12/06/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1340	NA		
Method: Rotosonic Drilling			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	~~2 oz. Jar~~ 40ml Vials w/ HCl (TK)	Yes	Laucks
~~NAPL - UV Light Test~~	~~sm. zip-lock bag~~	~~Yes NA~~	~~Field Test~~

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or - (NA)

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

APPENDIX A.3

SAMPLE LOG SHEETS FOR QUALITY ASSURANCE/QUALITY CONTROL SAMPLES - BATCH BLANKS

SOIL & SEDIMENT SAMPLE LOG SHEET

003-BB-001-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SB-
Sample Location: Batch Blank
Sampled By: TR
C.O.C. No.: BR-016

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: Batch Blank of Scoop

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/26/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1905	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Reagent Grade DI
RICCA CHEM. Co.
Lot # F042

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Rosal

SOIL & SEDIMENT SAMPLE LOG SHEET

003-BB-002-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-BB~~-TR
Sample Location: Batch Blank
Sampled By: TR
C.O.C. No.: BR-044

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: Scrap Batch Blank

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9/9/97			
Time: 2235			
Method: DPT	NA →		→
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCL	~~2 oz. Jar~~ (TR)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

REAGENT GRADE DI
RICCA CHEM. CO.
Lot F092

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

TR

SOIL & SEDIMENT SAMPLE LOG SHEET

003-BB-003-01-BK

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ TK
Sample Location: Batch Blank
Sampled By: TK
C.O.C. No.: BK-044

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: Scoop Batch Blank

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/4/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2840	NA		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ (TK)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

REAGENT GRADE DI
RICCA CHEM. CO.
Lot # F042

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-BB-004-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ TR
Sample Location: Batch Blank
Sampled By: TR
C.O.C. No.: BR-060

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: Batch Blank #4 - Soil / 5600

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/24/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2015	NA	→	
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ Vial	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

TR

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: Batch Blank - Soil Tubes

003-BB-001-01
Sample ID No.: ~~003-SB~~ TR
Sample Location: Batch Blank
Sampled By: TR
C.O.C. No.: LTC-002

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 7/10/97	NA		
Time: 1420			
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs Asso. Aq. Containers	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar	✓	Laucks
TAL Metals / Cyanide	8oz. Jar	✓	Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium Asso. Aq. Containers	Collected in jar with metals	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

NA

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Resample Hex. Chrom.
7/16 1405 Hrs
LAB MISSED ORIGINAL Holding Time

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

003-BB-002-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-~~ (TR)
Sample Location: Batch Blank
Sampled By: TR
C.O.C. No.: LTL-002

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: Batch Blank - Spoon

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/10/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1430	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	NO	Field GC
NAPL - UV Light Test	4 oz. Jar	NO	Field Test
TCL VOCs Asso. Aq. Containers	2 oz. Jar	YES	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals	NO	Laucks
Hexavalent Chromium Asso. Aq. Containers	Collected in jar with metals	YES	Laucks
pH*	Collected in jar with metals	NO	Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

NA

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

Resample Hex. Chrom.
7/16 1410
LAB missed original Holding Time

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
~~[]~~ QA Sample Type: Batch Blank of PE & Silicone Tubing

Sample ID No.: ~~003-TW-~~ 003-BB-003-01
Sample Location: Batch Blank
Sampled By: TL
C.O.C. No.: LTL-017
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7/26/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1900								
Method: Direct Pour								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type:	3			NA				
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft.
Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: ~~TEMPORARY WELL~~ TB
~~[X]~~ QA Sample Type: BATCH BLANK FOR SOILS SAMPLING TUBE

Sample ID No.: 003-BB-004-01 ~~003-TW~~
Sample Location: BATCH BLANK
Sampled By: TR / JL
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 8/27/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 0900								
Method: Direct POUR	NA							NA

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Date:	Initial							
Method:	1							
Monitor Reading (ppm):	2							
Well Casing Diameter & Material Type:	3		NA					
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
HEX. CHROMIUM	NONE	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: (NA) ft. Filtered TAL Metals Sample ID No.: 003-TW(NA)-F1

Direct Pour through thick wall soil sampling tube.
2ND SHIPMENT

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tim Gal

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: ~~TEMPORARY WELL~~ TB
~~[X]~~ QA Sample Type: BATCH BLANK FOR SOILS SAMPLING TUBE

Sample ID No.: 003-BB-005-01 (~~003-TW-~~ TB)
Sample Location: BATCH BLANK
Sampled By: TR/JL
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 8/27/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 0910								
Method: Direct Pour	NA							NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type:	3		NA					
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
HEX. CHROMIUM	NONE	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: _____ ft. Filtered TAL Metals Sample ID No.: 003-TW- -F1

Direct Pour through thin wall soil sampling tube.
1st thin wall sampling tube SHIPMENT.

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
~~[]~~ QA Sample Type: Batch Blank of Groundwater Tubing

Sample ID No.: ~~003-TW-~~ 003-BB-006-01 TR
Sample Location: Batch Blank
Sampled By: TR / JL
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 8/27/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0930	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Direct Pour	NA							NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type:	3							
Total Well Depth (TD):			NA					
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE through filter	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft. Filtered TAL Metals Sample ID No.: 003-~~TW-~~ BB-006 -F1

~~Duplicate~~ TR Direct Pour through PE & Silicon Tubing (2nd Rolls). Except Dis. Metals - use peristaltic pump & Filter = certified clean .45 micron High Capacity Disposable Filter

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

003-BB-0007-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
[] QA Sample Type: Batch Blank of Soil Tube

Sample ID No.: ~~003-TW-~~ (FB)
Sample Location: Batch Blank
Sampled By: TL/JC
C.O.C. No.: LTL-038
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 9/10/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1400								
Method: Direct Pour	NA							NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type:	3				NA			
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
HEX. Chrom	NA	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft.

Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
~~[]~~ QA Sample Type: Batch Blank of Soil Sampling Tube thin wall

Sample ID No.: ~~003-TW-~~ 003-BB-008-01
Sample Location: Batch Blank
Sampled By: TR / JC
C.O.C. No.: LTL-038
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 9/22/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1415	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: DI through Tube								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2			NA				
Type:	3							
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
HEX. Chromium	NONE	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft. Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

Sample collect IN 1ST SHIFT ~~SO~~ (TR) IN order to meet its holding time.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Ty Rogal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: ~~003-SB-~~ 003-BB-009-01 (TK)
Sample Location: ~~MS~~ (TK) Batch Blank
Sampled By: TK
C.O.C. No.: 00402

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: Batch Blank - 5.5 Spoon

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 10-27-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1245	NA →		
Method: Rotosonic Drilling			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
~~NAPL - UV Light Test~~	~~sm. zip-lock bag~~	~~Yes~~	~~Field Test~~ (TK)

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: Batch Blank Drillers Plastic Sample Sleeve

Sample ID No.: ~~003-SB~~ (FR) 003-BB-010-01
Sample Location: ~~MS~~ (FR) Batch Blank
Sampled By: TR/JL
C.O.C. No.: 00407

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11/20/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1430	NA		
Method: Rotosonic Drilling			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
~~NAPL - UV Light Test~~	~~sm. zip-lock-bag~~	~~Yes~~	Field Test (FT)

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: 003-BB-011-01 ~~003-SB~~ TR
Sample Location: MS-32D
Sampled By: TR/JL
C.O.C. No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: BATCH BLANK Bottles PLASTIC SAMPLE SLEEVE - END OF ROLL

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-04-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2430	NA		
Method: Rotosonic Drilling			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	~~2 oz. Jar~~ 40ml Vial w/ HCl	Yes	Laucks
~~NAPL - UV Light Test~~	~~sm. zip-lock bag~~	~~Yes~~	~~Field Test~~ TR

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

APPENDIX A.3

SAMPLE LOG SHEETS FOR QUALITY ASSURANCE/QUALITY CONTROL SAMPLES - RINSATE BLANKS

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: Rinsate Blank

003-SB-RB-01
Sample ID No.: ~~003-SB-(TR)~~
Sample Location: Rinsate Blank
Sampled By: TD/TR
C.O.C. No.: LTL-022

Type of Sample:
[X] Low Concentration
[] High Concentration

Bucket Hand Auger

GRAB SAMPLE DATA:

Date: 6/13/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1400	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium IL PE	~~Collected in jar with metals~~ (TC)	✓	Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

APPENDIX A.3

SAMPLE LOG SHEETS FOR QUALITY ASSURANCE/QUALITY CONTROL SAMPLES - TRIP BLANKS FOR FIXED BASE LABORATORY

LAUCKS

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
~~[]~~ Other: Soil & Aqueous
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-(TB)~~ 003-TB-001-01
Sample Location: TRIP BLANK #1
Sampled By: TR
C.O.C. No.: LTL-001

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/8/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1930	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	(TB) ~~2 oz. Jar~~ (2) 40ml Vials	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tim Rogal

LAUCKS

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~X~~ QA Sample Type: TRIP BLANK

Sample ID No.: 003-SB-TR → 003-TB-002-01
Sample Location: TRIP BLANK
Sampled By: TR
C.O.C. No.: LTL-002

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/10/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1910	NA →		
Method: DPT			
Monitor Reading (ppm): -			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs Asso. Ag. Container	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tay Ryan

LAUCKS

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-003-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ TB
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-003

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/10/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1750	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	(TB) ~~2 oz. Jar~~ 40ml Vials	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Rizzo

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB~~ 003-TB-004-01 (TL)
Sample Location: TRIP BLANK
Sampled By: TL/LAB
C.O.C. No.: LTE-004

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/12/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1530	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs (2) 40ml Vials w/HCl	~~2 oz. Jar~~ (TA)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

TL Lopez

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 7/14/97	NA		
Time: 1600			
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs (2) 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -
NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Terry Rogers

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-006-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB~~ TB
Sample Location: TRIP BLANK
Sampled By: TR
C.O.C. No.: LTL-006

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/16/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1300	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs (2) 40ml Vials w/HCl	2 oz. Jar	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003 - TB - 07 - 01
Sample ID No.: ~~003-SB~~ (TR)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-007

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/21/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1520	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	~~2 oz. Jar~~		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Terry Rogers

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	~~003-SB~~ TC 003-TB-008-01
Project No.:	6966	Sample Location:	TRIP BLANK
		Sampled By:	TR / LAB
		C.O.C. No.:	LTL-008

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 7/22/97			
Time: 1410			
Method: DPT	NA		
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): Terry Rogal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	~~003-SB~~ TR 003-TB-009-01
Project No.:	6966	Sample Location:	TRIP BLANK
		Sampled By:	TR / LAB
		C.O.C. No.:	LTL-009

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 7/23/97	NA		
Time: 1410			
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): Terry Rogal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-TR~~ 003-TB-010-01
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTC-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/24/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1445	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/ HCl	~~2 oz. Jar~~ (TR)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-TR~~ 003-TB-011-01
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-011

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/25/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1455	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-012-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-(TR)~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-012

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/27/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1330	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	003-TB-013-01 ~~003-SB~~ (TR)
Project No.:	6966	Sample Location:	TRIP BLANK
		Sampled By:	TR / LAB
		C.O.C. No.:	LTL-013

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 07-28-97			
Time: 1445			
Method: DPT	NA →		
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ TR	—	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: ~~003-SB~~ 003-TB-014-01
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-014

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/29/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1210	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TL	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Terry Loyd

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003 - TB - 015-01
Sample ID No.: ~~003-SB-~~ (TB)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/9/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1430	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TB)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Troy Kopale

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: Trip Blank

003-TS-016-01
Sample ID No.: ~~003-SB~~ (TR)
Sample Location: TRIP BLANK
Sampled By: TR/CAB
C.O.C. No.: 17L-016

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/5/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1435	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials W/ HCl	~~2 oz. Jar~~ (TR)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Terry Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

003-TB-017-01
Sample ID No.: ~~003-SB~~ (TB)
Sample Location: TRIP BLANK
Sampled By: TR / LAB
C.O.C. No.: LTL-017

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/6/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1515	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Terry Ryan

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003-TB-018-01
Sample ID No.: ~~003-SB-(TL)~~
Sample Location: TRIP BLANK
Sampled By: TL/LAB
C.O.C. No.: LTL-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/7/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1540	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TL)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tyler Black

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003-TB-019-01
Sample ID No.: ~~003-SB~~ TB
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-019

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/8/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1450	NA	→	→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs (2 40ml Vials w/ HCl	~~2 oz. Jar~~ TC	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Ogle

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	~~003-SB~~ TR 003-TB-020-01
Project No.:	6966	Sample Location:	TRIP BLANK
		Sampled By:	TR/CAB
		C.O.C. No.:	LTL-021

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9/11/97			
Time: 1420			
Method: DPT	NA		
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/ HCl	~~2 oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

003 - TB - 021 - 01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003 GB~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/ LAB
C.O.C. No.: LTL - 023

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~#~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/19/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1543	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml VOAs w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

003-TB-022-01
Sample ID No.: ~~003-GB~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-024

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/19/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1630	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	V	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Terry Lyle

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-023-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-TE~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-025

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/20/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2130	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB~~ 003-TB-024-01 TR
Sample Location: TRIP BLANK
Sampled By: TR / LAB
C.O.C. No.: LTL-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/21/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1615	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

003-TB-025-01
Sample ID No.: ~~003-SB-~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTC-027

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/22/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1450	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~*~~QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-~~ 003-TB-026-01 (TR)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-028

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/24/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1320	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	~~003-SB~~ TC 003-TB-027-01
Project No.:	6966	Sample Location:	TRIP BLANK
		Sampled By:	TR/LAB
		C.O.C. No.:	LTC-030

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 8/25/97			
Time: 1450			
Method: DPT	NA		
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ TC	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-028-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-GB~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTC-031

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/27/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0850	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-029-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ (TR)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL. 032

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/2/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1555	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml VOAs w/HCl	~~2 oz. Jar~~	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	003-TB-030-01 ~~003-SB~~ TR
Project No.:	6966	Sample Location:	TRIP BLANK
		Sampled By:	TRILAB
		C.O.C. No.:	LTL-033

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9/3/97			
Time: 1535			
Method: DPT	NA →		
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003-TB-031-01
Sample ID No.: ~~003 SB~~ (TB)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-034

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/4/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1515	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tim Reed

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-032-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-~~ TB
Sample Location: TRIP BLANK
Sampled By: TB/LAB
C.O.C. No.: LTL-035

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/5/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1510	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml VIAL w/ HCl	~~2 oz. Jar~~ TL	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003 - TB - 033 - 01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003 GP- TB~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTC - 035

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/6/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1345	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-034-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SD~~ (TR)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-037

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/8/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1540	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml VIALS W/HCl	~~2 oz. Jar~~ (T-C)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Terry Loyal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	003-TB-035-01 ~~003-SB~~ TR
Project No.:	6966	Sample Location:	TRIP BLANK
		Sampled By:	TR/LAB
		C.O.C. No.:	LTL-037

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9/9/97			
Time: 1340			
Method: DPT	NA →		
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TL	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): Terry Rogal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003 SB (FL)~~ D03-TB-036-01
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-039

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/15/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1523	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials U/HCl	~~2 oz. Jar~~ (FL)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003 SB~~ 003-TB-037-01
Sample Location: TRIP BLANK
Sampled By: TL/LAB
C.O.C. No.: LTL-040

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/16/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1555	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TB)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Black

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-036-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-~~ (TR)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-041

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/17/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1410	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Ryan

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003-TB-039-01
Sample ID No.: ~~003-SB-TR~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTC-042

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/18/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1200	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Rozkin

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: TRIP BLANK

003-TB-040-01
Sample ID No.: ~~003-SB~~ (TR)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-043

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/19/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1515	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003 - TB - 041 - 01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-~~ TB
Sample Location: TRIP BLANK
Sampled By: TK/LAB
C.O.C. No.: LTC-043

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/20/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1310	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/ HCl	~~2 oz. Jar~~ (TK)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Tony Kosak

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-042-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-(TR)~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-043

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/21/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1305	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

Ty Lopez

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB~~ 003-TB-043-01 (TK)
Sample Location: TRIP BLANK
Sampled By: TK/LAB
C.O.C. No.: LTC-045

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/22/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1645	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml VIALS W/HCl	~~2 oz. Jar~~ (TK)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Kopik

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: TRIP BLANK

003-TB-044-01
Sample ID No.: ~~003-SB~~ (TB)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTC-046

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/23/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1420	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TC)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP Blank

Sample ID No.: ~~003-SB~~ 003-TB-045-01 TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTL-047

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9/24/97	NA		
Time: 1445			
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: ~~003-SB~~ 003-TB-046-01 (TR)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: LTC-048

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/25/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1445			
Method: DPT	NA →		
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: TEMPORARY WELL
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-TW~~ 003-TB-047-01
Sample Location: TRIP BLANK
Sampled By: TA/LAB
C.O.C. No.: LTL-049
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 10-2-97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1400	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: LAB Filled	NA							~~NA~~

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type:	3							
Total Well Depth (TD):			NA					
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	2 ~~(3)~~ 40ml VOA Vial	✓
TCL Semivolatiles	NA	~~(2)~~ (2) 1L Amber Glass	
TCL PCBs	NA	(2) 1L Amber Glass	
Cyanide	NaOH	(1) 500ml HDPE	
TAL Metals (Total)	HNO3	(1) 1L HDPE	
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft.

Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-QAB-01

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: ~~003-SB-MW~~ (TR)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: 00401

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0900	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	~~2 oz. Jar~~ 40ml Vial w/HCl ✓		Laucks
NAPL - UV Light Test	sm. zip-lock-bag		Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-049-01

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: ~~003-SB-MW(TB)~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: 00401

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 10-24-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1400	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	(TB) ~~2 oz. jar~~ 40ml VIAL W/HCl		Laucks
NAPL - UV Light Test	sm. zip-lock-bag		Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Ty Kozal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: Trip Blank

Sample ID No.: 003-TB-050-01
Sample Location: Trip Blank
Sampled By: T.R./ Lab
C.O.C. No.: 00403

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-11-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1410	NA	NA	NA
Method: Lab prepared blank			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	40ml Vial w/ HCl	Yes	Laucks

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: Trip Blank

Sample ID No.: 003-TB-0[illegible]7-01
Sample Location: Trip Blank
Sampled By: T.R./ Lab
C.O.C. No.: 00405

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11/14/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1645	NA	NA	NA
Method: Lab prepared blank			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	40ml Vial w/ HCl	Yes	Laucks

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
See note.	

Signature(s):

Tony Lopez

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: Trip Blank

Sample ID No.: 003-TB-0572-01
Sample Location: Trip Blank
Sampled By: T.R./ Lab
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-18-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1430	NA	NA	NA
Method: Lab prepared blank			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	40ml Vial w/ HCl	Yes	Laucks

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: Trip Blank

Sample ID No.: 003-TB-057-01
Sample Location: Trip Blank
Sampled By: T.R./ Lab
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 11-19-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1500	NA	NA	NA
Method: Lab prepared blank			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	40ml Vial w/ HCl	Yes	Laucks

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: Trip Blank

Sample ID No.: 003-TB-054-01
Sample Location: Trip Blank
Sampled By: T.R./ Lab
C.O.C. No.: 00408

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 12/2/97	NA	NA	NA
Time: 2030			
Method: Lab prepared blank			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	40ml Vial w/ HCl	Yes	Laucks

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: Trip Blank

Sample ID No.: 003-TB-055-01
Sample Location: Trip Blank
Sampled By: T.R./ Lab
C.O.C. No.: 00470

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12/3/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1455	NA	NA	NA
Method: Lab prepared blank			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	40ml Vial w/ HCl	Yes	Laucks

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: Trip Blank

Sample ID No.: 003-TB-056-01
Sample Location: Trip Blank
Sampled By: T.R./ Lab
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-05-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1515	NA	NA	NA
Method: Lab prepared blank			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	40ml Vial w/ HCl	Yes	Laucks

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Terry Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: Trip Blank

Sample ID No.: 003-TB-037-01
Sample Location: Trip Blank
Sampled By: T.R./ Lab
C.O.C. No.: 00415

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12-8-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1540	NA	NA	NA
Method: Lab prepared blank			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	40ml Vial w/ HCl	Yes	Laucks

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-MS-~~ 003-TB-058-01 ~~01-TX~~
Sample Location: ~~MS~~ TA TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: 00421
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2/11/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1130	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: LAB								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: NA								
Total Well Depth (TD):								
Static Water Level (WL):			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
Dissolved Methane	NA	(2) 40ml VOA Vial	Microseeps
TCL Volatiles	HCl	(3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter): _____ °C
pH (YSI meter): _____ S.U.
ORP (YSI meter): _____ mV
DO (modified Winkler titration test kit): _____ mg/L
Dissolved Ferrous Iron (*): _____ mg/L
Dissolved Reduced Manganese (*): _____ mg/L
Hydrogen Sulfide (as Sulfide) (*): _____ mg/L
*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- -F1

CO2 _____ mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Terry Rapid

GROUNDWATER SAMPLE LOG SHEET

003-TB-059-01

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: ~~003-MS-~~ ~~01~~ TR
Sample Location: ~~MS~~ TB-059
Sampled By: TR/LAB
C.O.C. No.: 00423
Type of Sample:
[X] Low Concentration
[] High Concentration

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
~~[X]~~ QA Sample Type: TRIP BLANK

SAMPLING DATA:

Date: 02-16-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0900	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: LAB PREP								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):			NA					
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
~~Dissolved Methane~~	NA	~~(2) 40ml VOA Vial~~	~~Microseeps~~ TR
TCL Volatiles	HCl	2 (3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	~~NaOH~~	~~(1) 500ml HDPE~~ TR	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	~~HNO3~~	~~(1) 250ml HDPE~~	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	_____ °C	Filtered TAL Metals Sample ID No.:	003-MS- -F1
pH (YSI meter):	_____ S.U.		
ORP (YSI meter):	_____ mV	CO2 _____ mg/L	
DO (modified Winkler titration test kit):	_____ mg/L		
Dissolved Ferrous Iron (*):	_____ mg/L		
Dissolved Reduced Manganese (*):	_____ mg/L		
Hydrogen Sulfide (as Sulfide) (*):	_____ mg/L		

*Notes use of DR/700 Colorimeter

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-MS-01~~ 003-TB-060-01
Sample Location: ~~MS~~ TB-060
Sampled By: TR/LAB
C.O.C. No.: 00425
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 02-17-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0900	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: LAB PREP.								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material			NA					
Type:								
Total Well Depth (TD):								
Static Water Level (WL):			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
~~Dissolved Methane~~	NA	~~(2) 40ml VOA Vial~~	~~Microseeps~~ TC
TCL Volatiles	HCl	2 (TB) (3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH TC	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:
Temperature (YSI meter): _____ °C
pH (YSI meter): _____ S.U.
ORP (YSI meter): _____ mV
DO (modified Winkler titration test kit): _____ mg/L
Dissolved Ferrous Iron (*): _____ mg/L
Dissolved Reduced Manganese (*): _____ mg/L
Hydrogen Sulfide (as Sulfide) (*): _____ mg/L
*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- -F1
CO2 _____ mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type: TRIP BLANK

Sample ID No.: 003-TB-061-01 ~~003-MS-~~ ~~-01~~ (TL)
Sample Location: ~~MS~~ (TL) TB-061
Sampled By: TL/LAB
C.O.C. No.: 00427
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 02-18-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0800	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: LAB. PREP								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material			NA					
Type:								
Total Well Depth (TD):								
Static Water Level (WL):	SEE LOW FLOW PURGE DATA SHEET							
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
~~Dissolved Methane~~	~~NA~~	~~(2) 40ml VOA Vial~~	~~Microseeps~~ (TL)
TCL Volatiles	HCl	2 (3) ~~40ml~~ VOA Vial	Laucks
~~DO~~	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	~~NaOH~~	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3 (TL)	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:
Temperature (YSI meter): _____ °C
pH (YSI meter): _____ S.U.
ORP (YSI meter): _____ mV
DO (modified Winkler titration test kit): _____ mg/L
Dissolved Ferrous Iron (*): _____ mg/L
Dissolved Reduced Manganese (*): _____ mg/L
Hydrogen Sulfide (as Sulfide) (*): _____ mg/L
*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- -F1
CO2 _____ mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

003-TB-062-01

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
~~[]~~ QA Sample Type:

Sample ID No.: ~~003-MS-~~ ~~-01~~ TB
Sample Location: ~~MS~~ TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: 00423
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2/27/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0800	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: LAB								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material		NA						
Type:								
Total Well Depth (TD):								
Static Water Level (WL):			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
~~Dissolved Methane~~	~~NA~~	~~(2) 40ml VOA Vial~~	~~Microseeps~~ TB
TCL Volatiles	HCl	2 ~~(3)~~ 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	~~Field Test~~
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	NA (1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	____ °C	Filtered TAL Metals Sample ID No.:	003-MS- -F1
pH (YSI meter):	____ S.U.		
ORP (YSI meter):	____ mV	CO2 ____ mg/L	
DO (modified Winkler titration test kit):	____ mg/L		
Dissolved Ferrous Iron (*):	____ mg/L		
Dissolved Reduced Manganese (*):	____ mg/L		
Hydrogen Sulfide (as Sulfide) (*):	____ mg/L		

*Notes use of DR/700 Colorimeter

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[X] QA Sample Type: TRIP BLANK

003-TB-063-01
Sample ID No.: ~~003-MS-~~ -01 TR
Sample Location: ~~MS-~~ TRIP BLANK
Sampled By: TR / LAB
C.O.C. No.: 00431
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: NA	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method:								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:			NA					
Total Well Depth (TD):								
Static Water Level (WL):			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
~~Dissolved Methane~~	NA	(2) 40ml VOA Vial	~~Microseeps~~ TR
TCL Volatiles	HCl	2 TR ~~(3)~~ 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

NA

OBSERVATIONS / NOTES:

FIELD RESULTS:
Temperature (YSI meter): _____ °C
pH (YSI meter): _____ S.U.
ORP (YSI meter): _____ mV
DO (modified Winkler titration test kit): _____ mg/L
Dissolved Ferrous Iron (*): _____ mg/L
Dissolved Reduced Manganese (*): _____ mg/L
Hydrogen Sulfide (as Sulfide) (*): _____ mg/L
*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- -F1
CO2 _____ mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-MS-~~ 003-TB-064-01 ~~-01~~ TR
Sample Location: ~~MS-TR~~ TRIP BLANK
Sampled By: TR / LAB
C.O.C. No.: 00432
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 2-26-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0800	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: LAB PREP.								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):			NA					
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
~~Dissolved Methane~~	~~NA~~	~~(2) 40ml VOA Vial~~	~~Microseeps~~ TR
TCL Volatiles	HCl	2 TR (3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:
Temperature (YSI meter): _____ °C
pH (YSI meter): _____ S.U.
ORP (YSI meter): _____ mV
DO (modified Winkler titration test kit): _____ mg/L
Dissolved Ferrous Iron (*): _____ mg/L
Dissolved Reduced Manganese (*): _____ mg/L
Hydrogen Sulfide (as Sulfide) (*): _____ mg/L
*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- -F1
CO2 _____ mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase II)	Sample ID No.:	~~003-MS-~~ 003-TB-065-01 ~~-01~~
Project No.:	6966	Sample Location:	~~MS-~~ TRIP BLANK
		Sampled By:	LAB / TR
[] Domestic Well Data		C.O.C. No.:	00435
[X] Monitoring Well Data		Type of Sample:	
[] Other Well Type:		[X] Low Concentration	
[X] QA Sample Type:	TRIP BLANK	[] High Concentration	

SAMPLING DATA:

Date: 2/27/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0900	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: LAB PREP.								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material			NA					
Type:								
Total Well Depth (TD):								
Static Water Level (WL):			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
~~Dissolved Methane~~	~~NA~~	~~(2) 40ml VOA Vial~~	~~Microseeps~~ TM
TCL Volatiles	HCl	2 ~~(3)~~ 40ml VOA Vial	Laucks
DO	NA	~~(1) Winkler Test Kit Glass Bottle~~	Field Test
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NA ~~NaOH~~	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	°C	Filtered TAL Metals Sample ID No.:	003-MS- -F1
pH (YSI meter):	S.U.		
ORP (YSI meter):	mV	CO2	mg/L
DO (modified Winkler titration test kit):	mg/L		
Dissolved Ferrous Iron (*):	mg/L		
Dissolved Reduced Manganese (*):	mg/L		
Hydrogen Sulfide (as Sulfide) (*):	mg/L		

*Notes use of DR/700 Colorimeter

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	[signature]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-MS-~~ 003-TB-066-01 TC
Sample Location: ~~MS~~ TK Trip Blank
Sampled By: TR/LAB
C.O.C. No.: 00436
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3/2/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0800	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: LAB PREP-								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material		NA						
Type:								
Total Well Depth (TD):								
Static Water Level (WL):			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
~~Dissolved Methane~~	NA	(2) 40ml VOA Vial	~~Microseeps~~ TK
TCL Volatiles	HCl	2 TK (3) 40ml VOA Vial	Laucks
DO	NA	(1) Winkler Test Kit Glass Bottle	~~Field Test~~
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	NA (1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	(1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:
Temperature (YSI meter): _____ °C
pH (YSI meter): _____ S.U.
ORP (YSI meter): _____ mV
DO (modified Winkler titration test kit): _____ mg/L
Dissolved Ferrous Iron (*): _____ mg/L
Dissolved Reduced Manganese (*): _____ mg/L
Hydrogen Sulfide (as Sulfide) (*): _____ mg/L
*Notes use of DR/700 Colorimeter

Filtered TAL Metals Sample ID No.: 003-MS- -F1
CO2 _____ mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase II)	Sample ID No.:	~~003-MS-~~ 003-TB 067-01 ~~-0~~ TR
Project No.:	6966	Sample Location:	~~MS~~ TR TRIP BLANK
		Sampled By:	TR / LAB
[] Domestic Well Data		C.O.C. No.:	00438
[X] Monitoring Well Data		Type of Sample:	
[] Other Well Type:		[X] Low Concentration	
[X] QA Sample Type:	TRIP BLANK	[] High Concentration	

SAMPLING DATA:

Date: 3-03-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0800	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: LAB. PREP	NA							NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):				NA				
Static Water Level (WL):			SEE LOW FLOW PURGE DATA SHEET					
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected for
~~Dissolved Methane~~	~~NA~~	~~(2) 40ml VOA Vial~~	~~Microscope~~ TR
TCL Volatiles	HCl	(2) TR ~~(3)~~ 40ml VOA Vial	Laucks
~~DO~~	~~NA~~	~~(1) Winkler Test Kit Glass Bottle~~	~~Field Test~~
TCL Semivolatiles	NA	(2) 1L Amber Glass	Laucks
TCL PCBs	NA	(2) 1L Amber Glass	Laucks
Cyanide	NaOH	(1) 500ml HDPE	Laucks
Alkalinity, TSS, Sulfate, Nitrate & Nitrite	NA	NA (1) 1L HDPE	Laucks
Hardness	HNO3	(1) 250ml HDPE	Laucks
Ferrous Iron, Manganese & Hydrogen Sulfide	NA	(2) HDPE Bottle = one filtered for dissolved Mn	Field Test
TAL Metals (Total)	HNO3	(1) 1L HDPE	Laucks
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	Laucks
Chloride, Bromide & Phosphate (Dissolved)	NA	(1) 500ml HDPE	Laucks

OBSERVATIONS / NOTES:

FIELD RESULTS:

Temperature (YSI meter):	°C	Filtered TAL Metals Sample ID No.:	003-MS- -F1
pH (YSI meter):	S.U.		
ORP (YSI meter):	mV	CO2	mg/L
DO (modified Winkler titration test kit):	mg/L		
Dissolved Ferrous Iron (*):	mg/L		
Dissolved Reduced Manganese (*):	mg/L		
Hydrogen Sulfide (as Sulfide) (*):	mg/L		

*Notes use of DR/700 Colorimeter

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	[signature]

APPENDIX A.3

SAMPLE LOG SHEETS FOR QUALITY ASSURANCE/QUALITY CONTROL SAMPLES - TRIP BLANKS FOR ON SITE LABORATORY

BER

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: TRIP BLANK

Sample ID No.: 003-TB-001-01-BR (~~003-SB-~~ TR)
Sample Location: TRIP BLANK #1 BR
Sampled By: TR
C.O.C. No.: BR-001

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/8/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1830	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	~~2 oz. Jar~~ (2) 40ml Vials w/HCl ✓		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tim Rogal

BER

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: TRIP BLANK

Sample ID No.: TB-002-01-BR (003 ~~SB~~)
Sample Location: TRIP BLANK
Sampled By: TR
C.O.C. No.: BR-002

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/9/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1900	NA →		
Method: DPT			
Monitor Reading (ppm): 0.00			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	TA ~~2 oz. Jar~~ 40ml Vials w/HCl ✓		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -
N/A

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Rogers

BR

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB~~ 003-TB-003-01-BR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-003

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/10/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1755	NA	→	→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	~~2 oz. Jar~~ 40ml VIALS W/HCl ✓		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -
NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s):

BER

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-004-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-(TR)~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-004

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7-11-97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1645	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	~~2 oz. Jar~~ 40ml Vials w/HCl ✓		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Terry Royal

BR

SOIL & SEDIMENT SAMPLE LOG SHEET

003 - TB - 005 - 01 - BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-~~ (TB)
Sample Location: TRIP BLANK
Sampled By: TR / LAD
C.O.C. No.: BR-005

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/16/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1535			
Method: DPT	N/A →		→
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ (TB)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -
NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ 003-TB-006-01-BR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-006

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/13/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1500	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar 40ml Vial w/HCl ✓		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium ~~matrix spike~~ analysis.

UV LIGHT TEST RESULT (circle one): + or -

NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD
See note.

Duplicate ID No.:

Signature(s):

Ty Kral

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	003 TB-007-01-BR ~~003-SB-~~ TR
Project No.:	6966	Sample Location:	TRIP BLANK
		Sampled By:	TR/LAB
		C.O.C. No.:	BR-007

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 7/14/97			
Time: 1600			
Method: DPT	NA		
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

003-TB-008-01-BR
Sample ID No.: ~~003-SB-~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-008

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 7/15/97	NA		
Time: 1400			
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -
NA

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): Terry Rozal

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-003-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ TC
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-010

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/21/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1532	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TC	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-010-01-RR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ (TR)
Sample Location:
Sampled By:
C.O.C. No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/22/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1420	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/ HCl	~~2 oz. Jar~~ (TR)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Rozak

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	003-TB-011-01-BR ~~003-SB-~~ TR
Project No.:	6966	Sample Location:	TRIP BLANK
		Sampled By:	TR/LAB
		C.O.C. No.:	BR-012

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 7/23/97			
Time: 1405			
Method: DPT	NA		
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-012-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-TB~~ TB
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-013

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/24/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1450	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TB	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-013-01-BL

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-(TC)~~
Sample Location: TRIP BLANK
Sampled By: TC / LAB
C.O.C. No.: BL-015

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/25/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1500	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TC)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	~~003-SB~~ TR 003-TB-014-01-BR
Project No.:	6966	Sample Location:	TRIP BLANK
		Sampled By:	TR / LAB
		C.O.C. No.:	BR-016

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 7/26/97	NA		
Time: 1210			
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vial w/ HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

003-TB-015-01-BR
Sample ID No.: ~~003-SB~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-018

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 7/27/97	NA		
Time: 1240			
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.

Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-016-0.0-8

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-~~ TK
Sample Location: TRIP BLANK
Sampled By: TK/LAB
C.O.C. No.: BR-020

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/28/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1450	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TK	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Rozich

SOIL & SEDIMENT SAMPLE LOG SHEET

003 - TB - 017 - 01 - BK

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-~~ (TR)
Sample Location: TRIP BLANK
Sampled By: TR / LAB
C.O.C. No.: BR-021

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/29/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1215	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003 - TB - 01E-C1 - BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-~~ (7:3)
Sample Location: TRIP BLANK
Sampled By: TA / LAK
C.O.C. No.:

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/4/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1435	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40 ml Vials W/HCl	~~2 oz. Jar~~ TA	—	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003-TB-019-01-BR
Sample ID No.: ~~003 SB~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-029

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 6/5/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1440	NA	→	→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials W/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-020-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-025

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/6/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1510	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Terry Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-~~ 003-TR-021-01-BR (TR)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-026

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/7/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1535			
Method: DPT	NA →		
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ (TR)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-~~ 003-TB-022-01-BR
Sample Location: TRIP BLANK
Sampled By: TR / LAB
C.O.C. No.: BR-027

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/9/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1455	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs (2) 40ml Vials w/HCl	~~2 oz. Jar~~ TR		Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Boyd

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-123-01-BA

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: ~~003-SB-~~(TR)
Sample Location: TRIP BLANK
Sampled By: TR / LAB
C.O.C. No.: BA - 029

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/9/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1145	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/ HCl	~~2 oz. Jar~~ (TR)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: ~~003-SB-~~ 003-TB-024-01-B/L (TR)
Sample Location: TRIP BLANK
Sampled By: TR / CMB
C.O.C. No.: BR-030

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 6/10/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1200	NA		
Method: DPT			
Monitor Reading (ppm): ~~NA~~			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40 ml Vials w/HCl	~~2 oz. Jar~~ TR	—	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

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Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tyler

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: ~~003-SB~~ 003-TB-025-01-BR (TR)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-031

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/11/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1415	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003 TB-062601-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-(TB)~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-032

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/18/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1555	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/ HCl	~~2 oz. Jar~~ (Tag)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

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Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-027-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-033

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/13/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1520	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

003 - TB - 028 - 01 - BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003 SB~~ TB
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-035

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/20/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1600	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003-TB-029-01-BR
Sample ID No.: ~~003-SB~~ (TB)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-036

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/21/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1620	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ (Encore)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-(TR)~~ 003-TB-030-01-BR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-037

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/22/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1455	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vial w/HCl	~~2oz. Jar~~ (TR)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-031-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SD~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-038

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/23/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1210	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-032-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BL-039

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/24/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1315	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-033-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-(TB)~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-040

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 8/25/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1455	NA		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TB	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavient chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-034-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-TR~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-041

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 08-26-17	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1514			
Method: DPT	NA →		
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vial w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-035-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ (TK)
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BA-042

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/2/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1555	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TK)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tracy Roach

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-036-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ (TR)
Sample Location: TRIP BLANK
Sampled By: TR / LAB
C.O.C. No.: BR-043

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/3/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1530	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Lopez

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB~~ 003-TB-037-01-BR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-044

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/4/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1520	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml/W/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003 - TB - 038 - 01 - BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ TB
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR - 046

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/5/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1515	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml / Vials w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

TR

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB~~ 003-TB-039-01-BR
Sample Location: TRIP BLANK
Sampled By: TR / LAB
C.O.C. No.: BR-047

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9/6/97			
Time: 1340	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-040-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-(TR)~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-048

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/7/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1300	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials W/HCl	~~2 oz. Jar~~ (TR)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-041-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-GB~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-049

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/8/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1595	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40m/VIALS W/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB~~ 003-TB-042-01-BL
Sample Location: TRIP BLANK
Sampled By: TL/LAB
C.O.C. No.: BL-055

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/9/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1345	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/ HCl	~~2 oz. Jar~~ TL	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003-TB-043-01-BK
Sample ID No.: ~~003-SB-FD~~
Sample Location: TRIP BLANK
Sampled By: TR / LAB
C.O.C. No.: BR-051

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/15/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1525	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ FD	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-(TR)~~ 003-TB-044-01-BR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-052

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/16/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1600	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials W/HCl	~~2 oz. Jar~~ (TR)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Rizzuto

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003-TB-045-01-BC
Sample ID No.: ~~003-SB-TB~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-053

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/17/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1415	N/A →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ Tag	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Bozak

SOIL & SEDIMENT SAMPLE LOG SHEET

003-TB-046-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-054

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/18/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1205	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Terry Rogers

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-13~~ 003-TB-047-01-BC
Sample Location: TRIP BLANK
Sampled By: TC/LAB
C.O.C. No.: BR-055

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/14/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1520	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials W/HCl	~~2 oz. Jar~~ (TB)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

003 - TB - 048 - 01 - BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-~~ (TB)
Sample Location: TRIP BLANK
Sampled By: TRLAB
C.O.C. No.: BR-056

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/20/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1315	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TB)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
QA Sample Type: TRIP BLANK

003-TB-049-01-BR
Sample ID No.: ~~003-SB~~ TB
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-057

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/21/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1310	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials W/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Royal

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name:	NIROP FRIDLEY (Phase I)	Sample ID No.:	003-TB-050-01-BR ~~003-SB~~ TR
Project No.:	6966	Sample Location:	TRIP BLANK
		Sampled By:	TR/LAB
		C.O.C. No.:	BR-058

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
[X] QA Sample Type: TRIP BLANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9/22/97	NA →		
Time: 1650			
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s): [signature]

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003-TB-051-01-BK
Sample ID No.: ~~003-SB-(TB)~~
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-059

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/23/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1425	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TB)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

Sample ID No.: ~~003-SB-~~ 003-TB-052-01-BR TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: 32-060

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/24/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1450	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: TRIP BLANK

003-TB-053-01-BR
Sample ID No.: ~~003-SB~~ TR
Sample Location: TRIP BLANK
Sampled By: TR/LAB
C.O.C. No.: BR-062

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/25/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1450	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials W/HCl	~~2 oz. Jar~~ TR	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tony Rocha

APPENDIX A.3

SAMPLE LOG SHEETS FOR QUALITY ASSURANCE/QUALITY CONTROL SAMPLES - SOURCE AND DI WATER

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
~~[X] Other Well Type: TEMPORARY WELL~~ (TR)
~~[X]~~ QA Sample Type: SOURCE WATER POTABLE

Sample ID No.: ~~003-TW-~~ 003-SW-001-01 (TR)
Sample Location: DECON H2O
Sampled By: TR
C.O.C. No.: LTC-006
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/16/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1315	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Direct Pour	NA							NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type: NA	3							
Total Well Depth (TD):				NA				
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
HEX CHROMIUM	NONE	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft.

Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Troy Rozak

GROUNDWATER SAMPLE LOG SHEET

003-SW-002-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
~~[X] Other Well Type:~~ ~~TEMPORARY WELL~~ (TR)
~~[]~~ X QA Sample Type: Source Water DI

Sample ID No.: ~~003-TW-~~ (TR)
Sample Location: DI Water
Sampled By: TR
C.O.C. No.: LTC-006
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 7/16/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1335	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Direct Pour	NA							NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type:	3							
Total Well Depth (TD):		NA						
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	✓
TCL PCBs	NA	(2) 1L Amber Glass	✓
Cyanide	NaOH	(1) 500ml HDPE	✓
TAL Metals (Total)	HNO3	(1) 1L HDPE	✓
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
HEX. CHROMIUM	NONE	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft.

Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

Lot # F042
RICCA CHEMICAL CO.
ARLINGTON TEXAS 76012

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	Tony Royal

Groundwater

~~SOIL & SEDIMENT~~ SAMPLE LOG SHEET

003-SW-003-01

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: ~~003-SB~~
Sample Location: MS-B1
Sampled By: TR
C.O.C. No.: 00402

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: PLANT H2O FROM Drilling Truck

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 10/27/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0930	NA →		
Method: Rotosonic Drilling			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	~~2 oz. jar~~ 40ml Vials w/HCl	Yes	Laucks
NAPL - UV Light Test	~~sm. zip-lock bag~~	~~Yes~~	~~Field Test~~ (TR)
SVOCs	(2) Glass Amber 1L	YES (TR)	LAUCKS
PCBs	"	YES	↓
Total Metals	1L PE w/ HNO3	YES	
Cyanide	500ml PE w/ NaOH	YES	↓

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

TR

Groundwater
~~SOIL & SEDIMENT~~ SAMPLE LOG SHEET

003-SW-004-01

Project Site Name: NIROP FRIDLEY (Phase II)
Project No.: 6966

Sample ID No.: ~~003-SB-~~
Sample Location: MS-29
Sampled By: TR
C.O.C. No.: 00412

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[]~~ QA Sample Type: Plant H2O from drilling TANK

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 12/06/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1825	NA		
Method: Rotosonic Drilling			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs	2 oz. Jar	Yes	Laucks
NAPL - UV Light Test	sm. zip-lock-bag	Yes	Field Test

OBSERVATIONS / NOTES:

UV LIGHT TEST RESULT (circle one): + or -

MAP:

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Groundwater

~~SOIL & SEDIMENT~~ SAMPLE LOG SHEET

003-SW-001-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB-~~TR
Sample Location: DI H2O
Sampled By: TR
C.O.C. No.: BR009

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~#~~ QA Sample Type: SOURCE WATER DI

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/16/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0920	NA →		→
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or - (NA)

Lot# F042
RICCA CHEM. CO.

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Rozal

Groundwater

~~SOIL & SEDIMENT~~ SAMPLE LOG SHEET

003-SW-002-01-BR

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-SB~~ TC
Sample Location: DECON H2O
Sampled By: TR
C.O.C. No.: BR-003

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: SOURCE H2O - DECON H2O FROM THE PLANT USED TO DECON BATCH #1 Soil Scoops

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 7/16/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0935	NA →		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials W/HCl	~~2 oz. Jar~~ TC	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + / ~~N/A~~ -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Tim Rozak

Groundwater

~~SOIL & SEDIMENT~~ SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: 003-SW-003-01-BR (~~003-SB-~~)
Sample Location: Source Water
Sampled By: TR
C.O.C. No.: BR-060

[] Surface Soil
[X] Subsurface Soil
[] Sediment
[] Other:
~~[X]~~ QA Sample Type: Source Water - Potable Culligan (TR) Culligan H2O used to DECON SCOOPS Batch 2

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 9/24/97	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 2015	NA		
Method: DPT			
Monitor Reading (ppm): NA			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
NA	NA	NA	NA	NA
Method:	NA	NA	NA	NA
NA	NA	NA	NA	NA
Monitor Readings	NA	NA	NA	NA
(Range in ppm):	NA	NA	NA	NA
	NA	NA	NA	NA
NA	NA	NA	NA	NA
	NA	NA	NA	NA

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
TCL VOCs 40ml Vials w/HCl	~~2 oz. Jar~~ (TR)	✓	Field GC
NAPL - UV Light Test	4 oz. Jar		Field Test
TCL VOCs	2 oz. Jar		Laucks
TCL SVOCs AND PCBs	8oz. Jar		Laucks
TAL Metals / Cyanide	8oz. Jar		Laucks
Total Organic Carbon	Collected in jar with metals		Laucks
Hexavalent Chromium	Collected in jar with metals		Laucks
pH*	Collected in jar with metals		Laucks
Eh*	Collected in jar with metals		Laucks
Ferrous Iron*	Collected in jar with metals		Laucks
Sulfides*	Collected in jar with metals		Laucks

OBSERVATIONS / NOTES:

* Analysis for pH, Eh, ferrous iron and sulfides will be performed on samples designated for hexavlent chromium matrix spike analysis.

UV LIGHT TEST RESULT (circle one): + or -

MAP:

On separate sheet by FOL

Circle if Applicable:

MS/MSD See note.	Duplicate ID No.:

Signature(s):

Ty Rost

APPENDIX A.4

SAMPLE LOG SHEETS FOR IDW (FRAC TANK STORAGE WASTE WATER)

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: ~~TEMPORARY WELL~~ Driller Decon H2O
[] QA Sample Type:

Sample ID No.: ~~003-TW-~~ 003-ID-001-01; ALSO 003-ID-002-01
Sample Location: Poly Tank
Sampled By: TR/JL
C.O.C. No.: LTC-049
Type of Sample: LTC-050
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 10-2-97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1445								
Method: TEFLON BAILER								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type:	3							
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	
TCL PCBs	NA	(2) 1L Amber Glass	
Cyanide	NaOH	(1) 500ml HDPE	
TAL Metals (Total)	HNO3	(1) 1L HDPE	
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
PAHs	NA	(2) 1L Amber Glass	✓
pH & TSS	NA	(1) 1L HDPE	✓
COD	H_2SO_4	(1) 1L HDPE	✓

10/2 1445

→ 10/3 0850

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft.

Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: ~~TEMPORARY WELL~~ (TW) IDW
[] QA Sample Type: Dev. water KWH

Sample ID No.: ~~003-TW-~~ (TR) 003-ID-003-01
Sample Location: FRAC TANK #1 & #2
Sampled By: TR
C.O.C. No.: 00415
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 12/22/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1600	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Bailer	NA							NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type:	3		NA					
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	
TCL PCBs	NA	(2) 1L Amber Glass	
Cyanide	NaOH	(1) 500ml HDPE	
TAL Metals (Total)	HNO3	(1) 1L HDPE	
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
PAHs	NA	(2) 1L Amber Glass	✓
pH & TSS	NA	(1) 1L HDPE	✓
COD	H_2SO_4	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: NA ft. Filtered TAL Metals Sample ID No.: 003-TW- NA -F1

FRAC TANK SAMPLE - REPRESENTATIVE OF TANKS #1 & #2
~7400 gal

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: ~~TEMPORARY WELL~~ IDW
[] QA Sample Type: Purge/Dev. Water KH

Sample ID No.: 003-IO-004-01 ~~003-TW-~~ TR
Sample Location: FRAC TANK 1
Sampled By: TR
C.O.C. No.: 00416
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 1/13/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 2050	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: BAILER								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2		NA					
Type:	3							
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	
TCL PCBs	NA	(2) 1L Amber Glass	
Cyanide	NaOH	(1) 500ml HDPE	
TAL Metals (Total)	HNO3	(1) 1L HDPE	
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
PAHs	NA	(2) 1L Amber Glass	✓
pH & TSS	NA	(1) 1L HDPE	✓
COD	H_2SO_4	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

~~Stick up of PVC above ground level:~~ _____ ft. Filtered TAL Metals Sample ID No.: ~~003-TW-~~ ~~-F1~~ TR

FRAC TANK #1 ~ 5,500 gal

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: ~~TEMPORARY WELL~~ (TK) IDW
[] QA Sample Type: Purge/Dev. H2O IDW

Sample ID No.: ~~003-TW-~~ (TK) 003-ID-005-01
Sample Location: FRAC TANK #2
Sampled By: TK
C.O.C. No.: 00417
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 1-22-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0500	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: GRAB								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1		NA					
Well Casing Diameter & Material	2							
Type:	3							
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	
TCL PCBs	NA	(2) 1L Amber Glass	
Cyanide	NaOH	(1) 500ml HDPE	
TAL Metals (Total)	HNO3	(1) 1L HDPE	
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
PAHs	NA	(2) 1L Glass Amber	✓
pH & TSS	NA	(1) 1L HDPE	✓
COD	H_2SO_4	(1) 1L HDPE w/ H_2SO_4	✓

OBSERVATIONS / NOTES:

~~Stick up of PVC above ground level:~~ _____ ~~ft~~ Filtered TAL Metals Sample ID No.: 003-TW- ~~F1~~ (TK)

FRAC Tank #2 - 5,800 gal

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

TJ Mozal

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: ~~TEMPORARY WELL~~ TW IDW
[] QA Sample Type: Purge/Dist. H20 KH

003-ID-006-01
Sample ID No.: ~~003-TW~~ TW
Sample Location: FRAC TANK #1
Sampled By: JL
C.O.C. No.: 00418
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 1-25-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1700	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Bailer								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1		NR					
Well Casing Diameter & Material	2							
Type:	3							
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	
TCL PCBs	NA	(2) 1L Amber Glass	
Cyanide	NaOH	(1) 500ml HDPE	
TAL Metals (Total)	HNO3	(1) 1L HDPE	
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
PAHs	NA	(2) 1L Amber Glass	✓
pH & TSS	NA	(1) 1L HDPE	✓
COD	H2SO4	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: _____ ft.

Filtered TAL Metals Sample ID No.: 003-TW- -F1

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

003-ID-007.01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

Sample ID No.: ~~003-TW-~~ TC)
Sample Location: FRAC TANK #2
Sampled By: CL
C.O.C. No.: 00418

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: ~~TEMPORARY WELL~~
[] QA Sample Type: Drum H2O Rinse

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 1-25-98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1730	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Bailer								NA

PURGE DATA:

Date	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2		N/A					
Type:	3							
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	
TCL PCBs	NA	(2) 1L Amber Glass	
Cyanide	NaOH	(1) 500ml HDPE	
TAL Metals (Total)	HNO3	(1) 1L HDPE	
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
PAHs	NA	(2) 1L Amber Glass	✓
pH & TSS	NA	(1) 1L HDPE	✓
COD	H_2SO_4	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: _____ ft. Filtered TAL Metals Sample ID No.: 003-TW- -F1

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.:	

GROUNDWATER SAMPLE LOG SHEET

003-ID-008-01

Project Site Name: NIROP FRIDLEY (Phase I)
Project No.: 6966

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: ~~TEMPORARY WELL~~
[] QA Sample Type: Purge / Dev. H2O Blk

Sample ID No.: ~~003-TW-~~ TR
Sample Location: FRAC TANK #2
Sampled By: TR
C.O.C. No.: 00425
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/23/98	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1600	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: BAILER								NA

PURGE DATA:

Date:	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Color
Method:	Initial							
Monitor Reading (ppm):	1							
Well Casing Diameter & Material	2							
Type:	3			NA				
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL Volatiles	HCl	(3) 40ml VOA Vial	✓
TCL Semivolatiles	NA	(2) 1L Amber Glass	
TCL PCBs	NA	(2) 1L Amber Glass	
Cyanide	NaOH	(1) 500ml HDPE	
TAL Metals (Total)	HNO3	(1) 1L HDPE	
TAL Metals (Dissolved)	HNO3	(1) 1L HDPE	
PAHs	NA	(2) 1L Amber Glass	✓
pH & TSS	NA	(1) 1L HDPE	✓
COD	H2SO4	(1) 1L HDPE	✓

OBSERVATIONS / NOTES:

Stick up of PVC above ground level: _____ ft.

Filtered TAL Metals Sample ID No.: 003-TW- -F1

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

APPENDIX A.5

CHAIN OF CUSTODY RECORDS - PHASE I FIXED BASE LABORATORY

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rozak

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vials w/HCl	TCL VOCs 2oz JAR	TCL SVOCs + PCBs 8oz JAR	TAL METALS & CYANIDE 8oz JAR	TOC SVOCs 1L Glass Amber	PCBs 1L Glass Amber	CYANIDE 500ml PE w/NaOH	TAL METALS Total 1L PE w/HNO3	TAL METALS Diss 1L PE w/HNO3	REMARKS
TB-001	7/8/97	1830		X	003-TB-001-01	2	2									TRIP BLANK
SB-006	7/8/97	1850		X	003-SB-006-01	3	-	1	1	1						REANALYZE for cyanide (LAB "most mild" GC) "HOLD FOR FIELD RESULTS" (Pitch)
SB-006	7/8/97	1900		X	003-SB-006-02	3	-	1	1	1						
SB-006	7/8/97	1910		X	003-SB-006-03	3	-	1	1	1						"HOLD FOR FIELD GC" to be RESULTS" ANALYZED
TW-006	7/9/97	0110		X	003-TW-006-01	7 9 AK	3	-	-	-	2	2	AK X	AK X	+	TR ANALYZE
~~TW-006AV~~	~~7/9/97~~	~~0116~~		~~X~~	~~003-TW-006-F1~~ AK	~~1~~ AK	-	-	-	-	-	-	-	-	~~X~~ AK	~~ANALYZE~~
TW-006	7/9/97	1431		X	003-TW-006-F1	1	-	-	-	-	-	-	-	-	1	ANALYZE
TW-006	7/9/97	1450		X	003-TW-006-01	1	-	-	-	-	-	-	1	-	-	ANALYZE
TW-006	7/9/97	1510		X	003-TW-006-01	1	-	-	-	-	-	-	-	1	-	ANALYZE

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozak	7/9/97 5:30	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# : 406325744 SHIPPED to LANCS FOR ANALYSIS	

Order No. 70440 (0693)

LTL -002

CHAIN C USTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIKOP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojek

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	RL VOCs 40ml Vials w/HCl	TCL SVOC 1L Amber Glass	TCL PCBs 1L Amber Glass	TAL METALS 1L PE w/HNO3	CYANIDE 500ml PE w/NaOH	HEX. Chromium 1L PE	REMARKS
TB-002	7/10/97	1410		X	003-TB-002-01	2	2						
BB-001	7/10/97	1420		X	003-BB-001-01	10	3	2	2	1	1	1	RESAMPLE HEX Chrom. FOR LAB "missed holding Time"
BB-002	7/10/97	1430		X	003-BB-002-01	10	3	2	2	1	1	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojek	7/10/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED to LANCKS FOR ANALYSIS AB# 406255755	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogat [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vials w/HCl	TCL VOCs 2oz Jar	TCL SVOCs & PCBs 8oz Jar	TAL METALS & CYANIDE 8oz Jar	SVOCs 1L Amber Glass	PCBs 1L Amber Glass	TAL METALS Total 1L PE w/HNO3	TAL METALS 1L PE Dissolved w/HNO3	CYANIDE 500ml PE w/NaOH	REMARKS
TB 003	7/10/97	1750		X	003-TB-003-01	2	2									TRIP BLANK
SB-P07	7/10/97	1800		X	003-SB-P07-01	3	-	1	1	1						ANALYZE
SB-P07	7/10/97	1810		X	003-SB-P07-02	3	-	1	1	1						HOLD FOR GC FIELD RESULTS (Do Not Analize)
SB-P07	7/10/97	1825		X	003-SB-P07-03	3	-	1	1	1						HOLD FOR GC FIELD RESULTS (Analize)
TW-P07	7/11/97	0035		X	003-TW-P07-01	9	3	-	-	-	2	2	1	-	1	ANALYZE
TW-P07	7/11/97	0035		X	003-TW-P07-F1	1	-	-	-	-	-	-	-	1		ANALYZE

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogat	7/11/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB # 4063255766 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN O ISTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml Vials w/HCl	TCL VOCS 2oz JAR	TCL SVOC & PCB 8oz JAR	Metals & CYANIDE 8oz JAR	SVOCS 1L AMBER GLASS	PCBS 1L AMBER GLASS	CYANIDE 500ml PE w NaOH	Total METALS 1L PE w HNO3	Dissolved Metals 1L PE w/HNO3	REMARKS
TB-004	7/12	1530		X	003-TB-004-01	2	2									TRIP BLANK
SB-P03	7/12	1650		X	003-SB-P03-01	3	-	1	1	1						ANALYZE
SB-P03	7/12	1700		X	003-SB-P03-02	3	-	1	1	1						"HOLD FOR GC FIELD RESULTS" (DO NOT ANALIZE)
SB-P03	7/12	1715		X	003-SB-P03-03	3	-	1	1	1						"HOLD FOR GC FIELD RESULTS" (ANALIZE) TR 7/15
TW-P03	7/12	2130		X	003-TW-P03-01	~~18~~ TR 17	7	-	-	-	4	4	1	1	~~1~~ TR	MS/MSD
TW-P03	7/12	2130		X	003-TW-P03-F1	1	-	-	-	-	-	-	-	-	1	MS/MSD
SB-003	7/13	2025		X	003-SB-003-01 ~~003-TW~~ TR	3	-	1	1	1						ANALYZE
SB-003	7/13	2035		X	003-SB-003-02	3	-	1	1	1						"HOLD FOR GC FIELD RESULTS" (ANALIZE) TR 7/15
SB-003	7/13	2125		X	003-SB-003-03	3	-	1	1	1						"HOLD FOR GC FIELD RESULTS" (DO NOT ANALIZE)
TW-003	7/14	0050		X	003-TW-003-01	8	3	-	-	-	2	1	1	1		MIN PCB VOLUME
TW-003	7/14	0050		X	003-TW-003-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojahn	7/14/97 1600	FEDERAL EXPRESS AB# SEE REMARKS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063255770 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogal [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vials w/HCl	VOCS 2oz JAR	TCL SVOC & PCBS 8oz JAR	Metals, CN- & Cr+6 8oz JAR	SVOCS 1L AMBER GLASS	PCBS 1L AMBER GLASS	CYANIDE 500ml PE w/NaOH	TAL TOTAL METALS 1L PE w/HNO3	DISSOLVED METALS 1L PE w/HNO3	REMARKS
TB-005	7/14	1600		X	003-TB-005-01	2	2						TRIP BLANK			
SB-013	7/14	~~1745~~ TR 1745		X	003-TR-SB-013-01	3	–	1	1	1	–	–	MS/MSD, SPOT TESTS FOR Cr+6			
SB-013	7/14	1755		X	003-SB-013-02	3	–	1	1	1	–	–	"HOLD FOR GC FIELD RESULTS" (TR 7/15 ANALIZE)			
SB-013	7/14	1805		X	003-SB-013-03	3	–	1	1	1	–	–	"HOLD FOR GC FIELD RESULTS" (DO NOT ANALIZE)			
TW-013	7/15	0015		X	003-TW-013-01	9	3	–	–	–	2	2	1	1	–	
TW-013	7/15	0015		X	003-TW-013-F1	1	–	–	–	–	–	–	–	–	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogal	7/15/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB # 4063255781 SHIPPED to LAUCKS for ANALYSIS	

Order No. 70440 (0693)

LTL-C

CHAIN O USTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Bjork

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	TCL SVOC 1L Glass Amber	PCBs 1L Glass Amber	Total Metals 1L PE w/HNO3	Cyanide 500ml w/NaOH	Hex. Chromium 1L PE	Hex Chromium Redo From Previous Batch Blank	REMARKS
TB-006	7/16	1300		X	003-TB-006-01	2	2							TRIP BLANK
SW-001	7/16	1315		X	003-SW-001-01	10	3	2	2	1	1	1		Source Blank
SW-002	7/16	1335		X	003-SW-002-01	10	3	2	2	1	1	1		Source Blank
BB-001	7/16	1405		X	003-BB-001-01	1	-	-	-	-	-	-	1	REDO Batch Blank
BB-002	7/16	1410		X	003-BB-002-01	1	-	-	-	-	-	-	1	REDO Batch Blank

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Bjork	7/16/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB # 4063255792 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-007

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40ML VIALS W/HCl VOCs	TCL VOCs 2oz JAR	TCL SVOCs & PCBs 8oz JAR	TAL METALS, Cr+6 CYANIDE 8oz JAR	TCL SVOCs 1L GLASS AMBER	PCBs 1L GLASS AMBER	CYANIDE 500ml PE W/NaOH	TAL TOTAL METALS 1L PE W/HNO3	TAL METALS DISSOLVED 1L PE W/HNO3	REMARKS
TB-007	7/21	1520		X	003-TB-007-01	2	2						TRIP BLANK			
SB-008	7/21	1635		X	003-SB-008-01	3	–	1	1	1	–	–	ANALYZE			
SB-008	7/21	1655		X	003-SB-008-02	3	–	1	1	1	–	–	HOLD FOR FIELD GC RESULTS "ANALYZE" (7/24, 1430Hrs)			
SB-008	7/21	1700		X	003-SB-008-03	3	–	1	1	1	–	–	HOLD FOR FIELD GC RESULTS "CANCEL"			
TW-008	7/21	2020		X	003-TW-008-01	9	3	–	–	–	2	2	1	1	–	
TW-008	7/21	2020		X	003-TW-008-F1	1	–	–	–	–	–	–	–	–	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	7/22/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063255803 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN C JSTODY RECORD LTL-008

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn, John G Webster

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40ml Vials w/HCl TCL VOCs	TCL VOCs 2oz JAR	TCL SVOC + PCB 8oz JAR	METALS, CN, Cr+6 + TOC 8oz JAR	TCL SVOCs 1L Glass Amber	PCBs 1L Glass Amber	CYANIDE 500ml PE w/NaOH	TAL METALS (Total) 1LPE w/HNO3	METALS Dissolved 1LPE w/HNO3	REMARKS
TB-008	7/22	1410		X	003-TB-008-01	2	2						TRIP BLANK			
SB-004	7/22	2015		X	003-SB-004-01	3	-	1	1	1	-	-	ANALYZE - Do MS/MSD on Metals, CN-, TOC & Cr+6; SPOT TEST			
SB-004	7/22	2025		X	003-SB-004-02	3	-	1	1	1	-	-	HOLD FOR GC FIELD RESULTS "CANCEL"			
SB-004	7/22	2030		X	003-SB-004-03	3	-	1	1	1	-	-	HOLD FOR GC FIELD RESULTS "ANALYZE" (7/24, 1430 Hrs)			
DP1-01	7/22	0000		X	003-SB-DP1-01	3	-	1	1	1	-	-	ANALYZE			
TW-004	7/22	2305		X	003-TW-004-01	9	3	-	-	-	2	2	1	1	-	
TW-004	7/22	2305		X	003-TW-004-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojahn	7/23/97 1530	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063255814 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rojahn, John G Webster	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml Vials w/HCl	TCL VOCS 2oz JAR	TCL SVOC + PCBs 8oz JAR	TAL METALS + CYANIDE 8oz JAR	TCL SVOCs 1L GLASS AMBER	PCBs 1L GLASS AMBER	CYANIDE 500ml PE w/NaOH	TAL Metals (Total) 1L PE w/HNO3	Dissolved Metals 1L PE w/HNO3	REMARKS
TB-009	7/23	1410		X	003-TB-009-01	2	2						TRIP BLANK			
SB-038	7/23	1640		X	003-SB-038-01	3	-	1	1	1			ANALYZE			
SB-038	7/23	1650		X	003-SB-038-02	3	-	1	1	1			HOLD FOR GC FIELD RESULTS			
SB-038	7/23	1700		X	003-SB-038-03	3	-	1	1	1			HOLD FOR GC FIELD RESULTS			
TW-038	7/23	1940		X	003-TW-038-01	9	3	-	-	-	2	2	1	1	-	
TW-038	7/23	1940		X	003-TW-038-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojahn	7/24/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063255836 SHIPPED to Laucks for Analysis	

Order No. 70440 (0693)

CHAIN O ISTODY RECORD LTL-O

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	TCL VOCs 40ml VIAL w/HCl	TCL VOCs 2oz JAR	TCL SVOC + PCBs 8oz JAR	TAL METALS + CYANIDE 8oz JAR	TCL SVOCs 1L GLASS Amber	PCBs 1L GLASS Amber	CYANIDE 500ml PE w/NaOH	TAL METALS (TOTAL) 1LPE w/ HNO3	Dissolved Metals 1LPE w/HNO3	REMARKS
TB-010	7/24	1495		X	003-TB-019-01	2	2									TRIP BLANK
SB-073	7/24	1605		X	003-SB-073-01	3	-	1	1	1	-	-				ANALYZE
SB-073	7/24	1615		X	003-SB-073-02	3	-	1	1	1	-	-				HOLD FOR GC FIELD RESULTS
SB-073	7/24	1625		X	003-SB-073-03	3	-	1	1	1	-	-				HOLD FOR GC FIELD RESULTS
TW-073	7/24	1900		X	003-TW-073-01	9	3	-	-	-	2	2	1	1	-	
TW-073	7/24	1900		X	003-TW-073-F1	1	-	-	-	-	-	-	-	-	1	
TW-DP1	7/24	0000		X	003-TW-DP1-01	9	3	-	-	-	2	2	1	1	-	
TW-DP1	7/24	0000		X	003-TW-DP1-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	7/25/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 40632 55840 SHIPPED to LANCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-011

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn, John G Webster

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml VIALS w/HCl	TCL VOCs 2oz JAR	TCL SVOCs + PCB 8oz JAR	Metals, CN + CRG 8oz JAR	TCL SVOCs 1L Glass Amber	PCBs 1L Glass Amber	CYANIDE 500ml PE w/NaOH	TAL METALS (Total) 1L PE w/HNO3	Dissolved Metals 1L PE w/HNO3	Metals, CN ETOC 8oz JAR	REMARKS
TB-011	7/25	1455		X	003-TB-011-01	2	2										TRIP BLANK
SB-017	7/25	1605		X	003-SB-017-01	3	-	1	1	1	-	-					ANALYZE
~~SB-017~~	~~7/25~~	~~1620~~		~~X~~	~~003-SB-017-02~~	~~3~~	~~-~~	~~1~~	~~1~~	~~1~~	~~-~~	~~-~~					~~HOLD FOR FIELD GC RESULTS~~ (TR) CANCEL
SB-017	7/25	1695		X	003-SB-017-03	3	-	1	1	1	-	-					~~HOLD FOR FIELD GC RESULTS~~ (TR) "ANALYZE"
TW-017	7/25	1920		X	003-TW-017-01	9	3	-	-	-	2	2	1	1	-	-	ANALYZE
TW-017	7/25	1920		X	003-TW-017-F1	1	-	-	-	-	-	-	-	-	1	-	ANALYZE
SB-016	7/26	1315		X	003-SB-016-01	3 (TR)	-	1	1	-	-	-	-	-	-	1	ANALYZE
~~SB-016~~	~~7/26~~	~~1330~~		~~X~~	~~003-SB-016-02~~	~~3~~ (TR)	~~-~~	~~1~~	~~1~~							1	HOLD FOR GC ~~FIELD RESULTS~~ (TL) CANCEL
SB-016	7/26	1350		X	003-SB-016-03	3 (TL)	-	1	1	-	-	-	-	-	-	1	~~HOLD FOR GC FIELD RESULTS~~ (TL) "ANALYZE"
TW-016	7/26	1622		X	003-TW-016-01	9	3	-	-	-	2	2	1	1	-	-	ANALYZE
TW-016	7/26	1622		X	003-TW-016-F1	1	-	-	-	-	-	-	-	-	1	-	ANALYZE
(TL) AB-001	7/26	~~1625~~ 1630	(TL)	X	003-AB-001-01	9	3	-	-	-	2	2	1	1	-	-	ANALYZE
BB-003	7/26	1800		X	003-BB-003-01	9	3	-	-	-	2	2	1	1	-	-	ANALYZE
SB-018	7/26	1940		X	003-SB-018-01	3	-	1	1	1	-	-	-	-	-	-	ANALYZE

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	7/28/97 1500	FEDEXAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED TO LANCKS FOR ANALYSIS AB# 4063255851	

Order No. 70440 (0693)

CHAIN O. ISTODY RECORD

LTL - 012

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn Jim Lapp

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 2oz Jar	TCL SVOCs & PCBs 8oz Jar	Metals, CN+CrG 8oz Jar	TCL VOCs 40ml Vials w/HCl	TCL SVOCs 1L Amber Glass	PCBs 1L Amber Glass	Cyanide 500ml PE w/NaOH	Total Metals 1L PE w/HNO3	Dissolved Metals 1L PE w/HNO3	Metals 8oz Jar w/Cyanide	REMARKS
SB-018	7/26	1945		X	003-SB-018-02	3	1	1	1								~~HOLD FOR FIELD GC RESULTS (TR) "ANALIZE"~~
~~SB-018~~	~~7/26~~	~~1950~~		~~X~~	~~003-SB-018-03~~	~~3~~	~~1~~	~~1~~	~~1~~			(1L)					~~HOLD FOR FIELD GC RESULTS (TR)~~ CANCEL
TW-018	7/26	2155		X	003-TW-018-01	9	-	-	-	3	2	2	1	1	-	-	ANALIZE
TW-018	7/26	2155		X	003-TW-018-F1	1	-	-	-	-	-	-	-	-	1	-	ANALIZE
TB-012	7/27	1330		X	003-TB-012-01	2	-	-	-	2	-	-	-	-	-	-	TRIP BLANK
SB-074	7/27	1620		X	003-SB-074-01	3	1	1	-	-	-	-	-	-	-	1	ANALIZE
SB-074	7/27	1635		X	003-SB-074-02	3	1	1	-	-	-	-	-	-	-	1	HOLD FOR FIELD GC RESULTS CANCEL 7/29
SB-074	7/27	1645		X	003-SB-074-03	3	1	1	-	-	-	-	-	-	-	1	HOLD FOR FIELD GC RESULTS ANALIZE 7/29
SB-DP1	7/27	0000		X	003-SB-DP1-02	3	1	1	-	-	-	-	-	-	-	1	ANALIZE
TW-074	7/27	1850		X	003-TW-074-01	9	-	-	-	3	2	2	1	1	-	-	ANALIZE
TW-074	7/27	1850		X	003-TW-074-F1	1	-	-	-	-	-	-	-	-	1	-	ANALIZE

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	7/28/97 1500				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED to LAUCKS FOR ANALYSIS AB# 406325851	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-013

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml Vial W/HCl	TCL VOCS 2oz JAR	TCL SVOCS & PCBS 8oz JAR	Metals, CN, CR6 + TOC 8oz JAR	TCL SVOC 1L AMBER GLASS	PCBS 1L AMBER GLASS	CYANIDE 500ml PE W/NaOH	TOTAL METALS 1LPE W/HNO3	Dissolved Metals 1LPE W/HNO3	REMARKS
TB-013	7/28	1445		X	003-TB-013-01	2	2						TRIP BLANK			
SB-035	7/28	1805		X	003-SB-035-01 (TR)	3	–	1	1	1	–	–	DO MS/MSD ON EVERYthing include TOC; DO Cr+6 SPOT TESTS			
SB-035	7/28	1810		X	003-SB-035-02	3	–	1	1	1	–	–	HOLD FOR FIELD GC RESULTS ANALIZE (7/30)			
SB-035	7/28	1820		X	003-SB-035-03	3	–	1	1	1	–	–	HOLD FOR FIELD GC RESULTS CANCEL (7/30)			
TW-035	7/28	2140		X	003-TW-035-01	9	3	–	–	–	2	2	1	1	–	
TW-035	7/28	2140		X	003-TW-035-F1	1	–	–	–	–	–	–	–	–	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojahn	7/29/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIP to LAUCKS FOR ANALYSIS ~~SHIPPED to LAUCKS~~ (TR) AB# 4063255862	

Order No. 70440

CHAIN C 'JSTODY RECORD LTL-O

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY	NO. OF CON-TAINERS	TCL VOCs 40ml VIALS w/HCl	TCL VOCs 2oz JAR	TCL SVOCs & PCBs 8oz JAR	METALS & CYANIDE 8oz JAR	TCL SVOC 1L AMBER GLASS	PCBs 1L AMBER GLASS	CYANIDE 500ml w/NaOH	Total MCTACS 1LPE w/HNO3	Dissolved METALS 1LPE w/HNO3	REMARKS
SAMPLERS (SIGNATURE): Terry Rogers												

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION										
TB-014	7/29	1210		X	003-TB-014-01	2	2								TRIP BLANK
SB-034	7/29	1255		X	003-SB-034-01	3	-	1	1	1	-	-			ANALIZE
~~SB-034~~	~~7/29~~	~~1305~~		~~X~~	~~003-SB-034-02~~	~~3~~	~~-~~	~~1~~	~~1~~	~~1~~					~~HOLD FOR FIELD GC RESULTS~~ (TL) CANCEL
SB-034	7/29	1315		X	003-SB-034-03	3	-	1	1	1	-	-			~~HOLD FOR FIELD GC RESULTS~~ (TL) ANALIZE
TW-034	7/29	1540		X	003-TW-034-01	9	3	-	-	-	2	2	1	1	-
TW-034	7/29	1540		X	003-TW-034-F1	1	-	-	-	-	-	-	-	-	1

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogers	7/30/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 406325588 4 SHIPPED to LACKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL - 015

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn, JKYM

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml Vial w/HCl	TCL VOCS 2oz Jar	TCL SVOCs & PCB 8oz Jar	Metals & Cyanide 8oz Jar	TCL SVOC 1L Glass Amber	PCBs 1L Glass Amber	Cyanide 500ml PE w/NaOH	Total Metals 1L PE w/HNO3	Dissolved Metals 1L PE w/HNO3	REMARKS
TB-015	8/4	1430		X	003-TB-015-01	2	2									TRIP BLANK
SB-054	8/4	1600		X	003-SB-054-01	3	-	1	1	1	-	-				ANALIZE
SB-054	8/4	1620		X	003-SB-054-02	3	-	1	1	1	-	-				ANALIZE
TW-054	8/4	1935		X	003-TW-054-01	9	3	-	-	-	2	2	1	1	-	
TW-054	8/4	1935		X	003-TW-054-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojahn	8/5/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 1426355792 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (06[illegible])

CHAIN C JSTODY RECORD

LTL - 016

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn JK Yay

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vials w/HCl	TCL VOCs 2oz JAR	TCL SVOC & PCBs 8oz JAR	METALS, CYANIDE TOC & CR6 8oz JAR	TCL SVOCs 1L Glass Amber	PCBs 1L Glass Amber	CYANIDE 500ml w/NaOH	TOTAL METALS ILPE w/HNO3	DISSOLVED METALS ILPE w/HNO3	HEX. CHROMIUM ILPE	REMARKS
TB-016	8/5	1435		X	003-TB-016-01	2	2						TRIP BLANK				
SB-063	8/5	1610		X	003-SB-063-01	3	-	1	1	1	-	-	ANALIZE				
~~SB-063~~	~~8/5~~	~~1620~~		~~X~~	~~003-SB-063-02~~	~~3~~	~~-~~	~~1~~	~~1~~	~~1~~			~~"HOLD FOR FIELD GC RESULTS"~~ TR CANCEL				
SB-063	8/5	1630		X	003-SB-063-03	3	-	1	1	1	-	-	"HOLD FOR FIELD GC RESULTS" ANALIZE				
TW-063	8/5	1935		X	003-TW-063-01	9	3	-	-	-	2	2	1	1	-	-	DO MS/MSD ON Metals & CN-
TW-063	8/5	1935		X	003-TW-063-F1	1	-	-	-	-	-	-	-	-	1	-	DO MS/MSD
AB-002	8/5	1936		X	003-AB-002-01	10	3	-	-	-	2	2	1	1	-	*1	* NOTE SHORT Holding TIME

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojahn	8/6/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 3824926980 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

LTL - 017

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	TCL VOCs 40ml Vials w/HCl	TCL VOCs 2oz JAR	TCL SVOC & PCB 8oz JAR	Metals & Cyanide 8oz JAR	TCL SVOCs 1L Amber Glass	PCBs 1L Amber Glass	Cyanide 500ml PE w/NaOH	Total Metals 1L PE w/HNO3	Dissolved Metals 1L PE w/HNO3	REMARKS
TB-017	8/6	1515		X	003-TB-017-01	2	2									TRIP BLANK
SB-037	8/6	1815		X	003-SB-037-01	3	—	1	1	1	—	—				ANALIZE
SB-037	8/6	1830		X	003-SB-037-02	3	—	1	1	1	—	—				HOLD FOR FIELD GC RESULTS
SB-037	8/6	1835		X	003-SB-037-03	3	—	1	1	1	—	—				HOLD FOR FIELD GC RESULTS
SB-DP1	8/6	0000		X	003-SB-DP1-03	3	-	1	1	1	—	—				ANALIZE DUP
TW-037	8/6	2200		X	003-TW-037-01	9	3	—	-	-	2	2	1	1	—	
TW-037	8/6	2200		X	003-TW-037-F1	1	—	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	8/7/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 1426355814 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (0503)

CHAIN OF CUSTODY RECORD

LTL-01

PROJECT NO.:	SITE NAME:
69666	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	TCL VOCs 2oz Jar	TCL SVOC & PCB 8oz Jar	TAL Metals & Cyanide 8oz Jar	SVOC 1L Glass Amber	PCB 1L Glass Amber	Cyanide 500ml PE w/NaOH	Total Mgtals 1L PE w/HNO3	Dissolved Metals 1L PE w/HNO3	REMARKS
TB-018	8/7	1540		X	003-TB-018-01	2	2									TRIP BLANK
SB-P06	8/7	1635		X	003-SB-P06-01	3	-	1	1	1	-	-				ANALIZE SOILS
SB-P06	8/7	1700		X	003-SB-P06-03	3	-	1	1	1	-	-				ANALIZE SOILS
TW-P06	8/7	2020		X	003-TW-P06-01	9	3	-	-	-	2	2	1	1	-	ANALIZE AQUEOUS
TW-P06	8/7	2020		X	003-TW-P06-F1	1	-	-	-	-	-	-	-	-	1	
TW-DP1	8/7	0000		X	003-TW-DP1-02	9	3	-	-	-	2	2	1	1	-	
TW-DP1	8/7	0000		X	003-TW-DP1-F2	1	-	-	-	-	-	-	-	-	1	
SB-P01	8/7	2315		X	003-SB-P01-01	3	-	1	1	1	-	-	-	-	-	ANALIZE SOILS
SB-P01	8/7	2330		X	003-SB-P01-02	3	-	1	1	1	-	-	-	-	-	ANALIZE SOILS

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	8/8/97 1500	FEDEKAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 1426355803 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-019

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogal [signature] [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml Vial W/HCl	TCL VOCS 2oz JAR	TCL SVOC & PCB 8oz JAR	METALS & CYANIDE 8oz JAR	TCL SVOC 1L GLASS AMBER	PCB 1L GLASS AMBER	CYANIDE 500ml W/NaOH	TOTAL METALS 1L PE W/HNO3	DISSOLVED METALS 1L PE W/HNO3	REMARKS
TB-019	8/8	1450		X	003-TB-019-01	2	2									TRIP BLANK
TW-P01	8/8	1830		X	003-TW-P01-01	9	3	–	–	–	2	2	1	1	–	
TW-P01	8/8	1830		X	003-TW-P01-F1	1	–	–	–	–	–	–	–	–	1	
SB-023	8/9	1245		X	003-SB-023-01	3	–	1	1	1	–	–	–	–	–	
SB-023	8/9	1250		X	003-SB-023-02	3	–	1	1	1	–	–	–	–	–	HOLD FOR FIELD GC RESULTS CANCEL 8/13
SB-023	8/9	1255		X	003-SB-023-03	3	–	1	1	1	–	–	–	–	–	HOLD FOR FIELD GC RESULTS ANALYZE
TW-023	8/9	1458		X	003-TW-023-01 (TR)	9	3	–	–	–	2	2	1	1	–	
TW-023	8/9	1458		X	003-TW-023-F1	1	–	–	–	–	–	–	–	–	1	
SB-P12	8/10	1330		X	003-SB-P12-01	3	–	1	1	1	–	–	–	–	–	MS/MSD FOR METALS & CYANIDE
SB-P12	8/10	1340		X	003-SB-P12-02	3	–	1	1	1	–	–	–	–	–	HOLD FOR FIELD GC RESULTS CANCEL 8/13
SB-P12	8/10	1350		X	003-SB-P12-03	3	–	1	1	1	–	–	–	–	–	HOLD FOR FIELD GC RESULTS ANALYZE
TW-P12	8/10	2040		X	003-TW-P12-01	9	3	–	–	–	2	2	1	1	–	
TW-P12	8/10	2040		X	003-TW-P12-ØF1	1	–	–	–	–	–	–	–	–	1	
SB-063	8/5	1640		X	003-SB-063-04-BR (TR)	1	–	1								NOTE SAMPLE DATE

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogal	8/11/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 3824926991 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (...3)

CHAIN C 'JSTODY RECORD

LTL-02(

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): [signature]	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 2 oz JAR						REMARKS
SB-063	8/6	1700		X	003-SB-063-14-BR	1	1						PLEASE NOTE SAMPLE DATE
SB-037	8/6	1905		X	003-SB-037-05-BR	1	1						CALL MARK Sladic with QUESTIONS
SB-037	8/6	2340		X	003-SB-037-10-BR	1	1						
SB-P06	8/7	1650		X	003-SB-P06-02-BR	1	1						
SB-P06	8/7	1750		X	003-SB-P06-05-BR	1	1						
SB-P06	8/7	1850		X	003-SB-P06-07-BR	1	1						
SB-P01	8/7	2345		X	003-SB-P01-03-BR	1	1						
SB-P01	8/8	1610		X	003-SB-P01-05-BR	1	1						
SB-P01	8/8	2035		X	003-SB-P01-09-BR	1	1						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	8/11/97 1500	FED. EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 3824926991 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL - 021

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Spal

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vials w/HCl	TCL VOCs 202 Jars	TCL SVOCs & PCBs 8oz Jar	METALS CYANIDE & CrG	TCL SVOCs 1L Glass Amber	PCBs 1L Glass Amber	CYANIDE 500ml PE w/NaOH	TOTAL METALS	DISSOLVED METALS 1L PE w/HNO3	REMARKS
TB-020	8/11	1420		X	003-TB-020-01	2	2									TRIP BLANIC
SB-036	8/12	1630		X	003-SB-036-01	3	-	1	1	1	-	-				ANALIZE ALL PARAMETER
SB-036	8/12	1635		X	003-SB-036-02	3	-	1	1	1	-	-				ANALYZE VOCs & CrG; ANALYZE REMAINING PARAMETERS IF VOCs higher-than "03"
SB-036	8/12	1645		X	003-SB-036-03	3	-	1	1	1	-	-				ANALYZE VOCs & CrG; ANALYZE REMAINING PARAMETERS IF VOCs higher-than "02"
TW-036	8/12	1935		X	003-TW-036-01	9	3	-	-	-	2	2	1	1	-	
TW-036	8/12	1935		X	003-TW-036-F1	1	-	-	-	-	-	-	-	-	1	
SB-023	8/9	1315		X	003-SB-023-05-BR	1	-	1	-	-	-	-	-	-	-	PLEASE NUTE DATE CALL MARK SLADIC WITH QUESTIONS
SB-023	8/9	2025		X	003-SB-023-15-BR	1	-	1	-	-	-	-	-	-	-	
SB-P12	8/10	1410		X	003-SB-P12-05-BR	1	-	1	-	-	-	-	-	-	-	
~~—~~	~~8/11~~	~~1640~~			~~003-SB-P12-10-BR (TK)~~											(TK)
SB-P12	8/11	1630		X	003-SB-P12-11-BR	1	-	1	-	-	-	-	-	-	-	PLEASE NUTE DATE CALL MARK SLADIC WIL QUESTIONS
SB-036	8/12	1715		X	003-SB-036-05-BR	1	-	1	-	-	-	-	-	-	-	
SB-036	8/12	1805		X	003-SB-036-07-BR	1	-	1	-	-	-	-	-	-	-	
SB-DP1	8/12	0000		X	003-SB-DP1-22-BR	1	-	1	-	-	-	-	-	-	-	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Spal	8/13/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 382492720 1 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

NOTE: "02" : 003-SB-036-02
"03" : 003-SB-036-03

CHAIN C 'JSTODY RECORD

LTL- ?2

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogal

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TOC + CR+6 8oz JAR	CR+6 1L PE					REMARKS
SU B10	8/13	0925	~~00~~ TR	X	003-SU-B10-01	1	1						
SU-B09	8/13	0950		X	003 SU·B09-01	1	1						
SU-B08	8/13	1050		X	003·SU·B08·01	1	1						
SU-B06	8/13	1115		X	003·SU-B06-01	1	1						
SU-B07	8/13	1120		X	003·SU-B07-01	1	1						
SU-B04	8/13	1155		X	003·SU-B04·01	1	1						
SU-B05	8/13	1220		X	003·SU-B05-01	1	1						
SU-B03	8/13	1255		X	003-SU-B03-01	1	1						
SU-B01	8/13	1315		X	003-SU·B01-01	1	1						
SU-B02	8/13	1335		X	003-SU·B02-01	1	1						
SU-DP1	8/13	0000		X	003-SU-DP1-01	1	1						
SU-RB	8/13	1400		X	003-SU-RB-01	1	-	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogal	8/13/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB # 3824927201 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

LTL-023

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tony Royal

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vial w/HCl	TCL VOCs 2oz Jar	TCL SVOCs & PCBs 8oz Jar	TAL METALS & CN 8oz Jar	TCL SVOCs 1L Amber Glass	PCBs 1L Amber Glass	CYANIDE 500ml w/NaOH	TOTAL METALS 1L PE w/HNO3	DISSOLVED METALS 1L PE w/HNO3	REMARKS
TB-021	8/18	1545		X	003-TB-021-01	2	2									TRIP BLANK
SB-P02	8/18	2120		X	003-SB-P02-01	3	-	1	1	1	-	-				ANALYZE
SB-P02	8/18	2130		X	003-SB-P02-02	3	-	1	1	1	-	-				"HOLD FOR FIELD GC ANALYSIS" ANALYZE VOA ONLY
SB-P02	8/18	2140		X	003-SB-P02-03	3	-	1	1	1	-	-				"HOLD FOR FIELD GC ANALYSIS" ANALYZE
(TE) TW-P02	8/19	1320		X	003-TW-P02-01	9	3	-	-	-	2	2	1	1	-	
TW-P02	8/19	1320		X	003-TW-P02-F1	1	-	-	-	-	-	-	-	-	1	
AB-003	8/19	1325		X	003-AB-003-01	9	3	-	-	-	2	2	1	1	-	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Royal	8/19/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 38249271 90 SHIPPED to Laucks FOR ANALYSIS	

Order No. 70440 (0[illegible])

CHAIN C 'JSTODY RECORD

LTL-^24

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogich

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	TCL VOCs 40ml Vial w/HCl	TCL VOCs 2oz JAR	TCL SVOCs & PCBs 8oz JAR	TAL METALS & CN 8oz JAR	TCL SVOCs 1L AMBER GLASS	PCBs 1L AMBER GLASS	CYANIDE 500ml PE w/NaOH	TOTAL METALS 1L PE w/ HNO3	DISSOLVED METALS 1L PE w/HNO3	REMARKS
TB-022	8/19	1630		x	003-TB-022-01	2	2									TRIP BLANK
SB-058	8/19	2135		x	003-SB-058-01	3	-	1	1	1	-	-				ANALYZE "MS/MSD"
SB-058	8/19	2150		x	003-SB-058-02	3	-	1	1	1	-	-				"HOLD FOR FIELD GC RESULTS" ANALYZE VOA ONLY
SB-058	8/19	2200		x	003-SB-058-03	3	-	1	1	1	-	-				"HOLD FOR FIELD GC RESULTS ANALYZE
SB-058	8/19	0000		x	003-SB-DP1-04	3	-	1	1	1	-	-				ANALYZE "DUP"
TW-058	8/20	0025		X	003-TW-058-01	9	3	-	-	-	2	2	1	1	-	
TW 058	8/20	0025		x	003-TW-058-FI	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogich	8/20/97 1500	FED EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 3824927013 SHIPPED to LACHEY FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-025

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rogers	[signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml Vial w/HCl	TCL VOCS 2oz JAR					REMARKS
TB-023	8/20	2130		X	003-TB-023-01	2	2						TRIP BLANK
SB-P02	8/18	2215		X	003-SB-P02-05-BR	1	-	1					
SB-DP1	8/18	0000		X	003-SB-DP1-23-BR	1	-	1					DUP
SB-P02	8/19	1925		X	003-SB-P02-15-BR	1	-	1					
SB-058	8/19	2230		X	003-SB-058-05-BR	1	-	1					TR ~~MS/MSD~~ LAB ALREADY RAN 003-SB-023-05-BR
SB-DP1	8/19	0000		X	003-SB-DP1-25-BR	1	-	1					DUP
SB-058	8/21	0145		X	003-SB-058-15-BR	1	-	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogers	8/21/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 3824927035 SHIPPED to LALICKS FOR ANALYSIS	

Order No. 70440 (...)

CHAIN C USTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tony Hogan

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vial w/HCl	TCL VOCs 2oz JAR	TCLSVOCs + PCBs 8oz JAR	Metals, CN 8oz JAR	TCLSVOCs 1L Glass Amber	PCBs 1L Glass Amber	Cyanide 500ml w/NaOH	Total Metals 1L PE w/HNO3	Dissolved Metals 1L PE w/HNO3	REMARKS
TB-024	8/21	1615		X	003-TB-024-01	2	2						TRIP BLANK			
SB-007	8/21	1715		X	003-SB-007-01	3	-	1	1	1	-	-				
SB-007	8/21	1730		X	003-SB-007-02	3	-	1	1	1	-	-	ANALYZE VOCs AND THE REMAINING PARAMETERS ON			ANALYZE
SB-007	8/21	1740		X	003-SB-007-03	3	-	1	1	1	-	-	Hottest VOAs Only			VOC SAMPLE. Others Cancel
TW-007	8/21	2125		X	003-TW-007-01	19	7	-	-	-	4	4	2	2	-	DO MS/MSD
TW-007	8/21	2125		X	003-TW-007-F1	2	-	-	-	-	-	-	-	-	2	DO MS/MSD
SB-007	8/21	1855		X	003-SB-007-05-BR	1	-	1	-	-	-	-	-	-	-	
SB-007	8/21	2395		X	003-SB-007-11-BR	1	-	1	-	-	-	-	-	-	-	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Hogan	8/22/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 382492 7046 SHIPPED TO LANCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTC-027

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rogahn	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vials w/HCl	TCL VOCs 2oz Jar	TCL SVOCs & PCBs 8oz Jar	Metals, CN- & TOC 8oz Jar	TCL SVOCs 1L Glass Amber	PCBs 1L Glass Amber	Cyanide 500ml PE w/NaOH	Total Metals 1LPE w/ HNO3	Dissolved Metals 1LPE w/ HNO3	Metals, CN, TOC 8oz Jar	REMARKS
TB-025	8/22	1450		X	003-TB-025-01	2	2										TRIP BLANK
SB-027	8/22	1705		X	003-SB-027-01	3	-	1	1	1	-	-					ANALYZE
SB-027	8/22	1710		X	003-SB-027-02	3	-	1	1	1	-	-					Analyze VOCs and the REMAINING PARAMETERS ON the Hotter SAMPLE
SB-027	8/22	1725		X	003-SB-027-03	3	-	1	1	1	-	-	(TN)	(TN)			ANALYZE
TW-027	8/22	2205		X	003-TW-027-01	9	3	-	-	-	2	2	1	1	—	—	ANALYZE
TW-027	8/22	2205		X	003-TW-027-FI	1	-	-	-	-	-	-	-	-	1	-	
SB-027	8/22	1805		X	003-SB-027-05-BR	1	-	1	-	-	-	-	-	-	-	-	
SB-027	8/22	2000		X	003-SB-027-06-BR	1	-	1	-	-	-	-	-	-	-	-	
SB-030	8/23	1400		X	003-SB-030-01	3	-	1	1	(TN)	-	-	-	-	-	1	
SB-030	8/23	1415		X	003-SB-030-02	3	-	1	1	(TN)	-	-	-	-	-	1	
SB-030	8/23	1435		X	003-SB-030-03	1	-	1	-	-	-	-	-	-	-	-	
SB 030	8/23	1530		X	003-SB-030-04-BR	1	-	1	-	-	-	-	-	-	-	-	
TW-030	8/23	1715		X	003-TW-030-01	9	3	-	-	-	2	2	1	1	—	—	
TW-030	8/23	1715		X	003-TW-030-FI	1	-	-	-	-	-	-	-	-	1	-	

Analyze ALL

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogahn	8/25/97 1530	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	**DATE / TIME:**	**RECEIVED BY (SIGNATURE):**	**RELINQUISHED BY (SIGNATURE):**	**DATE / TIME:**	**RECEIVED BY(SIGNATURE):**
RELINQUISHED BY (SIGNATURE):	**DATE / TIME:**	**RECEIVED FOR LABORATORY BY (SIGNATURE):**	**DATE / TIME:**	**REMARKS:** AB# 382492705O SHIPPED to Lucks FOR ANALYSIS	

Order No. 70440 (0603)

CHAIN C[illegible]STODY RECORD

LTL-028

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogan [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml w/	TCL SVOCS 1L Glass Amber	PCBS 1L Glass Amber	Cyanide 500ml w/ NaOH	Total Metals 1LPE w/ HNO3	Dissolved Metals 1LPE w/ HNO3	TCL VOCS 2oz Jar	TCL SVOC & PCBS 8oz Jar	Metals & Cyanide 8oz Jar	REMARKS
TW-DP1	8/23	0000		x	003-TW-DP1-03	9	3	2	2	1	1	–	–	–	–	
TW-DP1	8/23	0000		x	003-TW-DP1-F3	1	–	–	–	–	–	1	–	–	–	
SB-P09	8/23	1935		x	003-SB-P09-01	3	–	–	–	–	–	–	1	1	1	Analyze ~~VOCs & the remaining Para~~ TC first AN
SB-P09	8/23	1940		x	003-SB-P09-02	3	–	–	–	–	–	–	1	1	1	ANALYZE VOCs and the remaining parameters on the hotter sample
SB-P09	8/23	1950		x	003-SB-P09-03	3	–	–	–	–	–	–	1	1	1	
SB-P09	8/23	2015		x	003-SB-P09-05-BR	1	–	–	–	–	–	–	1	–	–	~~[illegible] to Laucks for Analysis 8/23~~ TC
SB-P09	8/23	0000		x	003-SB-DP1-05	3	–	–	–	–	–	–	1	1	1	
TW-~~SB~~ TB P09	8/24	1230		x	003-TW-P09-01	9	3	2	2	1	1	–	–	–	–	
TW-P09	8/24	1230		x	003-TW-P09-F1	1	–	–	–	–	–	1	–	–	–	
TB-026	8/24	1320		x	003-TB-026-01	2	2	–	–	–	–	–	–	–	–	TRIP BLANK
SB-P09	8/24	1435		x	003-SB-P09-09-BR	1	–	–	–	–	–	–	1	–	–	~~[illegible]~~ TC
SB-055	8/24	1600		x	003-SB-055-01	3	–	–	–	–	–	–	1	1	1	Minimal Sample Volume (MSV)
SB-055	8/24	1610		x	003-SB-055-02	3	–	–	–	–	–	–	1	1	1	(Also MSV) Analyze VOCs first and the remaining parameters on the
SB-055	8/24	1615		x	003-SB-055-03	3	–	–	–	–	–	–	1	1	1	hotter sample.

Analyze ALL
Analyze ALL
Analyze ALL
Analyze ALL

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogan	8/25/97 1530	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 3824927050 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

LTL-029

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Royahn

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	TCL VOCs 40ml Vials w/HCl	TCL SVOCs 1L Amber Glass	PCBs 1L Amber Glass	Cyanide 500ml PE w/NaOH	Total Metals 1LPE w/HNO3	Dissolved Metals 1LPE w/HNO3	VOCs 2oz Jar	REMARKS
TW-055	8/24	1835		X	003-TW-055-01	9	3	2	2	1	1	-		
TW-055	8/24	1835		X	003-TW-055-F1	1	-	-	-	-	-	1		
SB-055	8/24	1630		X	003-SB-055-05-BR	1	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Royahn	8/25/97 1530	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 38249270 50 SHIPPED TO LANCKS FOR ANALYSIS	

Order No. 70440 (06[illegible])

CHAIN C 'USTODY RECORD

LTL-03C

PROJECT NO.:	SITE NAME:
69966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Hoyt

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vials w/HCl	TCL VOCs 2oz JAR	TCL SVOCs & PCBs 8oz JAR	METALS & CYANIDE 8oz JAR	TCL SVOCs 1L Glass Amber	PCBs 1L Glass Amber	CYANIDE 500ml PE w/NaOH	Total Metals ILPE w/HNO3	Dissolved Metals ILPE w/HNO3	REMARKS
TB-027	8/25	1450		X	003-TB-027-01	2	2									TRIP BLANIC
SB-032	8/25	2105		X	003-SB-032-01	3	-	1	1	1	-	-				
SB-032	8/25	2115		X	003-SB-032-02	3	-	1	1	1	-	-				HOLD FOR FIELD QC RESULTS CANCEL (8/27)
SB-032	8/25	2120		X	003-SB-032-03	3	-	1	1	1	-	-				HOLD FOR FIELD QC RESULTS ANALYZE (8/27)
TW1-032	8/26	1310		X	003-TW-032-01	9	3	-	-	-	2	2	1	1	-	
TW1-032	8/26	1310		X	003-TW1-032-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Hoyt	9/24/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 38249270 61 SHIPPED TO LANCS FOR ANALYSIS	

Order No. 70440 (0693)

LTL-031

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml Vials w/HCl	TCL SVOCS 1L AMBER GLASS	PCBS 1L AMBER GLASS	CYANIDE 500ml PE w/NaOH	TOTAL METALS 1LPE w/HNO3	HEX. CHROMIUM 1LPE	DISSOLVED METALS 1LPE w/HNO3	REMARKS
TB-028	8/27	0850		X	003-TB-028-01	2	2							
BB-004	8/27	0900		X	003-BB-00401	10	3	2	2	1	1	1	–	
BB-005	8/27	0910		X	003-BB-005-01	10	3	2	2	1	1	1	–	
BB-006	8/27	0930		X	003-BB-006-01	9	3	2	2	1	1	–	–	
BB-006	8/27	0930		X	003-BB-006-F1	1	–	–	–	–	–	–	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	8/27/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 3824927072 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (...)

LTL-432

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Roach

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vial w/HCl	TCL VOCs 2oz Jar	TCL SVOC & PCBs 8oz Jar	Metals & Cyanide 8oz Jar	SVOCs 1L Amber Glass	PCBs 1L Amber Glass	Cyanide Glass 500ml PE w/NaOH	Total Metals 1L PE w/HNO3	Dissolved Metals 1L PE w/HNO3	REMARKS
TB-029	9/02	1550		X	003-TB-029-01	2	2									TRIP BLANK
SB-P08	9/02	2200		X	003-SB-P08-01	3	-	1	1	1						ANALYZE
SB-P08	9/02	2230		X	003-SB-P08-03	3	-	1	1	1						ANALYZE
TW-P08	9/03	1453		X	003-TW-P08-01	9	3	-	-	-	2	2	1	1	-	
TW-P08	9/03	1453		X	003-TW-P08-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Roach	9/3/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB # 382492708 3 SHIPPED TO LANCES FOR ANALYSIS	

Order No. 70440 (0693)

LTC-033

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tony Royal John G Webster

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vial w/HCl	TCL VOCs 2oz JAR	TCL SVOCs & PCBs 8oz JAR	METALS & CYANIDE 8oz JAR TOC ECP			REMARKS
TB-030	9/03	1535		X	003-TB-030-01	2	2						TRIP BLANK
SB-070	9/03	2250		X	003-SB-070-01	3	-	1	1	1			MS/MSD METALS & CYANIDE ~~HEX. CHROM; ALSO HEX~~ (TR) (TL)
SB-070	9/03	2255		X	003-SB-070-02	3	-	1	1	1			HOLD FOR FIELD GC RESULTS CANCEL 9/5 FAX
SB-070	9/03	2315		X	003-SB-070-03	3	-	1	1	1			HOLD FOR FIELD GC RESULTS ANALYZE 9/5 FAX
							-						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Royal	9/4/97 600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 3824927186 SHIPPED TO LANCS FOR ANALYSIS	

Order No. 70440

CHAIN C USTODY RECORD

LTL-034

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Nash

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vials w/HCl	SVOCs 1LGlass Amber	PCBs 1LGlass Amber	CYANIDE 500ml PE w/NaOH	TOTAL METALS 1LPE w/HNO3	Dissolved METALS 1LPE w/HNO3	REMARKS
TB-031	9/04	1515		X	003-TB-031-01	2	2						
TW-070	9/04	1858		X	003-TW-070-01	9	3	2	2	1	1		
TW-070	9/04	1858		X	003-TW-070-F1	1	—	—	—	—	—	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Nash	9/5/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 382492717S SHIPPED to LANCS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-035

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature] [signature] [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml VIAL W/HCl	TCL VOCS 2oz JAR	TCL SVOCS & PCBS 8oz JAR	METALS & CYANIDE 8oz JAR	TCL SVOCS 1L AMBER GLASS	PCBS 1L AMBER GLASS	CYANIDE 500ml W/NaOH	TOTAL METALS 1LPE W/HNO3	DISSOLVED METALS 1LPE W/HNO3	REMARKS
TB-032	9/5	1510		X	003-TB-032-01	2	2						TRIP BLANK			
SB-P10	9/5	1650		X	003-SB-P10-01	3	–	1	1	1	–	–	ANALYZE			
~~SB-P10~~	~~9/5~~	~~1700~~		~~X~~	~~003-SB-P10-02~~	~~3~~	~~–~~	~~1~~	~~1~~	~~1~~	~~–~~	~~–~~	~~HOLD FOR FIELD GC RESULTS~~ TR			
SB-P10	9/5	1715		X	003-SB-P10-03	3	–	1	1	1	–	–	~~HOLD FOR FIELD GC RESULTS~~ ANALYZE			
SB-DP1	9/5	0000		X	003-SB-DP1-06	3	–	1	1	1	–	–	ANALYZE			
TW-P10	9/5	2040		X	003-TW-P10-01	9	3	–	–	–	2	2	1	1	–	ANALYZE
TW-P10	9/5	2040		X	003-TW-P10-F1	1	–	–	–	–	–	–	–	–	1	
TW-DP1	9/5	0000		X	003-TW-DP1-04	9	3	–	–	–	2	2	1	1	–	
TW-DP1	9/5	0000		X	003-TW-DP1-F4	1	–	–	–	–	–	–	–	–	1	
TB-033	9/6	1345		X	003-TB-033-01	2	2	–	–	–	–	–	–	–	–	
SB-P04	9/6	1730		X	003-SB-P04-01	3	–	1	1	1	–	–	–	–	–	
~~SB-P04~~	~~9/6~~	~~1745~~		~~X~~	~~003-SB-P04-02~~	~~3~~	~~–~~	~~1~~	~~1~~	~~1~~	~~–~~	~~–~~	~~–~~	~~–~~	~~–~~	~~HOLD FOR GC RESULTS~~ TR
SB-P04	9/6	1755		X	003-SB-P04-03	3	–	1	1	1	–	–	–	–	–	~~HOLD FOR GC RESULTS~~ ANALYZE
TW-P04	9/6	2252		X	003-TW-P04-01	9	3	–	–	–	2	2	1	1	–	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/8/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 3824927142 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (0[illegible])

CHAIN C 'JSTODY RECORD LTL - O

PROJECT NO.:	SITE NAME:
69666	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	Dissolved Metals ILPE w/ HNO3	TCL VOCs 2oz JAR	TCL SVOCs & PCBs 60z JAR	Metals & Cyanide 8oz JAR			REMARKS
TW-P04	9/6	2252		X	003-TW-P04-F1	1	1						
SB-033	9/7	1940		X	003-SB-033-01	3	—	1	1	1			
SB-033	9/7	1950		X	003-SB-033-02	3	—	1	1	1			HOLD FOR GC FIELD RESULTS CANCEL 9/9 FAX
SB-033	9/7	2030		X	003-SB-033-03	3	—	1	1	1			HOLD FOR GC FIELD RESULTS ANALYZE 9/9 FAX

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	9/8/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 38249271/42 SHIPPED TO CAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-037

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rich

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vials w/HCl	TCL SVOCs 1L AMBER GLASS	PCBs 1L AMBER GLASS	CYANIDE 500ml PE w/NaOH	TOTAL METALS 1L PE w/HNO3	Dissolved METALS 1L PE w/HNO3	TCL VOCs 2oz Jar	TCL SVOCs + PCBs 8oz Jar	METALS & CYANIDE 8oz Jar	REMARKS
TB-034	9/08	1540		X	003-TB-034-01	2	2									
(TA) ~~TB-TW~~ 033	9/08	1850		X	003-TW-033-01	9	3	2	2	1	1	-	-	-	-	
TW-033	9/08	1850		X	003-TW-033-F1	1	-	-	-	-	-	1	-	-	-	
SB-P11	9/08	2050		X	003-SB-P11-01	3	-	-	-	-	-	-	1	1	1	DO MS/MSD
SB-P11	9/08	2100		X	003-SB-P11-02	3	-	-	-	-	-	-	1	1	1	HOLD FOR GC RESULTS CANCEL 9/10
SB-P11	9/08	2110		X	003-SB-P11-03	3	-	-	-	-	-	-	1	1	1	HOLD FOR GC RESULTS ANALYZE 9/10
SB-DP1	9/08	0000		X	003-SB-DP1-07	3	-	-	-	-	-	-	1	1	1	DUP

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rich (TA)	9/9/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 382492731 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN C USTODY RECORD LTL-038

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): [signature]	[signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml Vials w/HCl	TCL SVOCS 1L AMBER GLASS	PCBS 1L AMBER GLASS	CYANIDE 500ml w/NaOH	TOTAL METALS 1LPE w/HNO3	DISSOLVED METALS 1LPE w/HNO3	HEX. CHROMIUM 1LPE	REMARKS
TB-035	9/09	1340		X	003-TB-035-01	2	2							
TW-P11	9/09	1740		X	003-TW-P11-01	11	3	2	2	2	2	~~2~~ (TR)		MS/MSD FOR INORGANICS
TW-P11	9/09	1740		X	003-TW-P11-F1	2	-	-	-	-	-	2		MS/MSD
AB-004	9/09	1742		X	003-AB-004-01	9	3	2	2	1	1	-	-	
BB-007	9/10	1400		X	003-BB-007-01	10	3	2	2	1	1	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/10/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 3824927105 (TR) SHIPPED TO LAUCKS FOR ~~DELTA ANALYZ~~ ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-039

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogalski

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vial w/HCl	TCL VOCs 2oz JAR	TCL SVOCs + PCBs 8oz JAR	Metals, CN & CA 8oz JAR	TCL SVOCs 1L Amber Glass	PCBs 1L Amber Glass	Cyanide 500ml PE w/NaOH	Total Metals ICPE w/HNO3	Diss'd Metals ICPE w/HNO3	REMARKS
TB-036	9/15	1523		X	003-TB-036-01	2	2									TRIP BLANK
SB-029	9/15	1835		X	003-SB-029-01	3	-	1	1	1	-	-				ANALYZE
SB-029	9/15	1840		X	003-SB-029-02	3	-	1	1	1	-	-				"
TW-029	9/15	2035		X	003-TW1-029-01	9	3	-	-	-	2	2	1	1	-	
TW-029	9/15	2035		X	003-TW1-029-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	9/16/97 500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 38249276	
				SHIPPED to LAUCKS FOR Analysis	

Order No. 70440 (0693)

CHAIN O JSTODY RECORD

LTL - O

ADD CR+6 ANALYSIS (FAX 9/23)

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Nosek

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs w/ 40ml Vials w/HCl	TCL VOCs 2oz JAR	TCL SVOC & PCBs 8oz JAR	Metals & Cyanide 8oz JAR	TCL SVOC 1L Amber Glass	PCB 1L Amber Glass	Cyanide 500ml PE w/NaOH	Total Metals 1L PE w/HNO3	Dissolved Metals 1L PE w/HNO3	REMARKS
TB-039	9/18	1200		X	003-TB-039-01	2	2									TRIP BLANK
SB-071	9/18	1220		X	003-SB-071-01	3	-	1	1	1						
SB-071	9/18	1230		X	003-SB-071-02	3	-	1	1	1						HOLD FOR FIELD GC RESULTS CANCEL 9/22
SB-071	9/18	1245		X	003-SB-071-03	3	-	1	1	1						HOLD FOR FIELD GC RESULTS ANALYZE 9/22
TW-071	9/18	1615		X	003-TW-071-01	9	3	-	-	-	2	2	1	1	-	
TW-071	9/18	1615		X	003-TW-071-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Nosek	9/19/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 406325977	
				TO BE SHIPPED to Laucks For Analysis	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-041

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml VIALS W/HCl	TCL VOCS 2oz JAR	TCL SVOCS & PCBS 8oz JAR	METALS & CYANIDE 8oz JAR	TCL SVOCS 1L GLASS AMBER	PCBS 1L GLASS AMBER	CYANIDE 500ml PE W/NaOH	TOTAL METALS 1L PE W/HNO3	DISSOLVED METALS 1L PE W/HNO3	REMARKS
TB-038	9/17	1410		X	003-TB-038-01	2	2						TRIP BLANK			
SB-P05	9/17	1650		X	003-SB-P05-01	3	-	1	1	1			DO MS/MSD ON INORGANICS (METALS + CN⁻)			
SB-P05	9/17	1655		X	003-SB-P05-02	3	-	1	1	1			HOLD FOR FIELD GC RESULTS ANALYZE 9/22			
SB-P05	9/17	1705		X	003-SB-P05-03	3	-	1	1	1			HOLD FOR FIELD GC RESULTS CANCEL 9/22			
TW-P05	9/17	1935		X	003-TW-P05-01	9	3	-	-	-	2	2	1	1	-	
TW-P05	9/17	1935		X	003-TW-P05-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojahn	9/18/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063259760 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN C JSTODY RECORD

LTL-04

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Royster	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vials w/HCl	TCL SVOCs 1L Amber Glass	TCL PCBs 1L Amber Glass	Cyanide w/ 500ml PE w/NaOH	Total Metals 1LPE w/HNO3	Dissolved Metals 1LPE w/HNO3	Hex. Chromium 1LPE	REMARKS
TW-046	9/19	1943		X	003-TW1-046-01	19	7	4	4	2	2	–		DO MS/MSD
TW-046	9/19	1943		X	003-TW-046-F1	2	–	–	–	–	–	2		DO MS/MSD
AB-005	9/19	1945		X	003-AB-005-01	9	3	2	2	1	1	–	–	
TW1-026	9/20	1845		X	003-TW1-026-01	9	3	2	2	1	1	–	–	
TW-026	9/20	1845		X	003-TW1-026-F1	1	–	–	–	–	–	1	–	
TW-068	9/21	1728		X	003-TW1-068-01	9	3	2	2	1	1	–	–	
TW-068	9/21	1728		X	003-TW1-068-F1	1	–	–	–	–	–	1	–	
AB-006	9/22	1415		X	003-AB-006-01	1	–	–	–	–	–	–	1	
BB-008	9/22	1430		X	003-BB-008-01	10	3	2	2	1	1	–	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Royster	9/22/97 1530	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 406325978Z SHIPPED TO LANCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-043

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rozak

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	TCL VOCs 40ML Vials W/HCL	TCL VOCs 2oz JAR	TCL SVOCs & PCBs 8oz JAR	METALS, CN, CRG 8oz JAR	TOC 8oz JAR	METALS & CN 8oz JAR	METALS, CN & TOC 8oz JAR	REMARKS
TB-040	9/19	1515		+	003-TB-040-01	2	2							TRIP BLANK
SB-046	9/19	1650		X	003-SB-046-01	3	-	1	1	1	-	-		DO MS/MSD ON ALL PARAMETERS EXCEPT CRG
~~SB-046~~	~~9/19~~	~~1700~~		~~X~~	~~003-SB-046-02~~	~~3~~		~~1~~	~~1~~	~~1~~	~~-~~	~~-~~		(TL)
SB-046	9/19	1710		X	003-SB-046-03	3	-	1	1	1	-	-		
SB-DP1	9/19	0000		X	003-SB-DP1-08	3	-	1	1	1	-	-		DUP
TB-041	9/20	1310		X	003-~~SB~~ TB(TA)-041-01	2	2	-	-	-	-	-		TRIP BLANK
SB-026	9/20	1400		X	003-SB-026-01	3	-	1	1	-	1	-		
~~SB-026~~	~~9/20~~	~~1410~~		~~X~~	~~003-SB-026-02~~	~~3~~	~~-~~	~~1~~	~~1~~	~~-~~	~~1~~	~~-~~		(TL)
SB-026	9/20	1425		X	003-SB-026-03	3	-	1	1	-	1	-		
TB-042	9/21	1305		X	003-TB-042-01	2	2	-	-	-	-	-		TRIP BLANK
SB-068	9/21	1440		X	003-SB-068-01	3	-	1	1	-	-	1		
~~SB-068~~	~~9/21~~	~~1450~~		~~X~~	~~003-SB-068-02~~	~~3~~	~~-~~	~~1~~	~~1~~	~~-~~	~~-~~	~~1~~		(TR)
SB-068	9/21	1500		X	003-SB-068-03	3	-	1	1	-	-	1		

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozak	9/22/97 1530	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: ABL 406325978Z SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

LTL-04

CHAIN O JSTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogan [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vials w/HCl	TCL VOCS 2oz JAR	TCL SVOCS & PCBs 8oz JAR	Metals + CN- 8oz JAR	TCL SVOC 1L Amber Glass	PCBs 1L Amber Glass	Cyanide 500ml PE w/NaOH	Total Metals 1LPE w/HCl	Dissolved Metals 1LPE w/HCl	REMARKS
TB-044	9/23	1420		X	003-TB-044-01	2	2									TRIP BLANK
SB-047	9/23	1640		X	003-SB-047-01	3	–	1	1	1	–	–				
SB-047	9/23	1645		X	003-SB-047-02	3	–	1	1	1	–	–				HOLD FOR FIELD GC RESULTS "CANCEL" 9/25
SB-047	9/23	1655		X	003-SB-047-03	3	–	1	1	1	–	–				HOLD FOR FILLD GC RESULTS "ANALYZE" 9/25
TW-047	9/23	1844		X	003-TW-047-01	9	3	–	–	–	2	2	1	1	–	
TW-047	9/23	1844		X	003-TW-047-F1	1	–	–	–	–	–	–	–	–	1	
TW-DP1	9/23	0000		X	003-TW-DP1-05	9	3	–	–	–	2	2	1	1	–	
TW-DP1	9/23	0000		X	003-TW-DP1-F5	1	–	–	–	–	–	–	–	–	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogan	9/24/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063260246 SHIP to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-045

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): [signature]	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS w/ 40ml Vials/HCl	TCL VOCS 2oz JAR	TCL SVOCS & PCBS 8oz JAR	Metals, CN, CR6 & TOC 8oz JAR	TCL SVOCS 1L AMBER GLASS	PCBS 1L AMBER GLASS	CYANIDE 500ml PE w/ NaOH	TOTAL METALS 1L PE w/ HNO3	Dissolved Metals 1L PE w/ HNO3	REMARKS
TB-043	9/22	1645		X	003-TB-043-01	2	2						TRIP BLANK			
SB-015	9/22	1710		X	003-SB-015-01	3	-	1	1	1			DO MS/MSD ON METALS, CN, TOC & HEX. Chrom Also, Stop test CR6			
SB-015	9/22	1720		X	003-SB-015-02	3	-	1	1	1			HOLD FOR GC RESULTS "CANCEL" (PHONE 9/23)			
SB-015	9/22	1725		X	003-SB-015-03	3	-	1	1	1			HOLD FOR GC RESULTS "ANALYZE" (PHONE 9/23)			
SB-DP1	9/22	0000		X	003-SB-DP1-09 ~~-0~~ TL	3	-	1	1	1			DUP			
TW-015	9/22	2005		X	003-TW-015-01	9	3	-	-	-	2	2	1	1	-	
TW-015	9/22	2005		X	003-TW-015-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/23/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063259793 SHIPPED to LAUCKS FOR ANALYSIS.	

Order No. 70440 (0693)

LTL-046

CHAIN O ISTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojas [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	TCL VOCs 2oz JAR	TCL SVOCs & PCBs 8oz JAR	Metals + CN- 8oz JAR	TCL SVOC 1L Amber Glass	PCBs 1L Amber Glass	Cyanide 500ml PE w/NaOH	Total Metals 1LPE w/HCl	Dissolved Metals 1LPE w/HCl	REMARKS
TB-044	9/23	1420		X	003-TB-044-01	2	2						TRIP BLANK			
SB-047	9/23	1640		X	003-SB-047-01	3	–	1	1	1	–	–				
SB-047	9/23	1645		X	003-SB-047-02	3	–	1	1	1	–	–	HOLD FOR FIELD GC RESULTS "CANCEL" 9/25			
SB-047	9/23	1655		X	003-SB-047-03	3	–	1	1	1	–	–	HOLD FOR FILLD GC RESULTS "ANALYZE" 9/25			
TW-047	9/23	1844		X	003-TW-047-01	9	3	–	–	–	2	2	1	1	–	
TW-047	9/23	1844		X	003-TW-047-F1	1	–	–	–	–	–	–	–	–	1	
TW-DP1	9/23	0000		X	003-TW-DP1-05	9	3	–	–	–	2	2	1	1	–	
TW-DP1	9/23	0000		X	003-TW-DP1-F5	1	–	–	–	–	–	–	–	–	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojas	9/24/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063260246 SHIP to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

LTL-047

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Hoyt

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vials w/ HCl	TCL VOCs 2oz Jar	TCL SVOCs & PCBs 8oz Jar	Metals, CN & CrVI 8oz Jar	TCL SVOCs 1L Amber Glass	PCBs 1L Amber Glass	Cyanide 500ml PE w/ NaOH	Total Metals 1L PE w/ HNO3	Dissolved Metals 1L PE w/ HNO3	REMARKS
TB-045	9/24	1445		X	003-TB-045-01	2	2									TRIP BLANK
SB-050	9/24	1815		X	003-SB-050-01	3	-	1	1	1	-	-				DO MS/MSD ON Hex. Chromium ONLY & SPOT Tests
SB-050	9/24	1825		X	003-SB-050-02	3	-	1	1	1	-	-				HOLD FOR GC RESULTS ANALYZE (LAMB 9/29 PHONE)
SB-050	9/24	1835		X	003-SB-050-03	3	-	1	1	1	-	-				HOLD FOR GC RESULTS CANCEL (LAMB 9/29 PHONE)
SB-DP1	9/24	0000		X	003-SB-DP1-10	3	-	1	1	1	-	-				ANALYZE
TW-050	9/24	2105		X	003-TW-050-01	9	3	-	-	-	2	2	1	1	-	
TW-050	9/24	2105		X	003-TW-050-FI	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Hoyt	9/25/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 40632602 24 SHIPPED to LANCKS FOR ANALYSIS	

Order No. 70440 (069

CHAIN C USTODY RECORD

LTL-048

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tony Iqbal

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml VIALS W/HCl	TCL VOCs 2oz JAR	TCL SVOCs + PCBs 8oz JAR	METALS, CN & CrVI 8oz JAR	TCL SVOC 1L AMBER GLASS	PCBs 1L AMBER GLASS	CYANIDE W/NaOH 500ml PE	TOTAL METALS 1LPE W/HNO3	DISSOLVED METALS 1LPE W/HNO3	REMARKS
TB-046	9/25	1445		X	003-TB-046-01	2	2									TRIP BLANIC
SB-039	9/25	1645		X	003-SB-039-01	3	-	1	1	1	-	-				
SB-039	9/25	1650		X	003-SB-039-02	3	-	1	1	1	-	-				HOLD FOR GC RESULTS CANCEL (LAMB 9/29 PHONE)
SB-039	9/25	1700		X	003-SB-039-03	3	-	1	1	1	-	-				HOLD FOR GC RESULTS ANALYZE (LAMB 9/29 PHONE)
TW1-039	9/25	1940		X	003-TW1-039-01	9	3	-	-	-	2	2	1	1	-	
TW1-039	9/25	1940		X	003-TW1-039-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Iqbal	9/26/97 1030	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 40632602 02 SHIP TO LANCKS FOR ANALYSIS	

Order No. 70440 (0693)

LTL-049

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Ty Nagel

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vial w/HCl	PAHs 1L Amber Glass	TSS & PH 1L PE				REMARKS
TB-047	10/02	1400		X	003-TB-047.01	2	2						
ID-001	10/02	1445		X	003-ID-001-01	6	3	2	1				7DAY TURN

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Ty Nagel	10/2/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 40632601 43 SHIPPED to LAULKS FOR ANALYSIS	

Order No. 70440 (06

CHAIN C USTODY RECORD

LTC-050

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	COD ILPE W/H2SO4						REMARKS
ID-002	10/3	0850		X	003-ID-002-01	1	1						7 DAY TURN

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	10/3/97 0930	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: ABT 406326012 1 SHIPPED TO LACKS FOR ANALYSIS	

Order No. 70440 (0693)

APPENDIX A.5

CHAIN OF CUSTODY RECORDS - PHASE I ON SITE LABORATORY

BR-001

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY
SAMPLERS (SIGNATURE): Tony Royal	

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml VIAL w/HCl	VOCs 2oz JAR					REMARKS	FID
TB-01	7/8/97	1830		X	003-TB-001-01-BR	2	2						TRIP BLANK	NA.
SB-006	7/8/97	1850		X	003-SB-006-01-BR	1	–	1					~~PRIORITY~~ (TC)	0.4
SB-006	7/8/97	1900		X	003-SB-006-02-BR	1	–	1					PRIORITY SAMPLE	0.0
SB-006	7/8/97	1910		X	003-SB-006-03-BR	1	–	1					PRIORITY SAMPLE	0.7
SB-006	7/8/97	1920		X	003-SB-006-04-BR	1	–	1						0.0
SB-006	7/8/97	1930		X	003-SB-006-05-BR	1	–	1						0.0
SB-006	7/8/97	1945		X	003-SB-006-06-BR	1	–	1						1.7
SB-006	7/8/97	2000		X	003-SB-006-07-BR	1	–	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Royal	0330 7/9	SECURE INSIDE FIELD TRAILER		7/9/97 430	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: FIELD GC BER TRAILER	

Order No. 70440 (0693)

CHAIN C USTODY RECORD

PROJECT NO.: 69666	SITE NAME: NIROP FRIDLEY													
SAMPLERS (SIGNATURE): Terry Rojek														
STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOCS 40ml Vials	VOCS 2oz JAR					REMARKS	FID
TB-002	7/9/97	1900		X	003-TB-002-01-BR	2	2	—					TRIP BLANK	NA
SB-006	7/9/97	2025		X	003-SB-006-08-BR	1	—	1						0.0
SB-006	7/9/97	2145		X	003-SB-006-09-BR	1	—	1					NOT A FULL BOTTLE VERY LITTLE RECOVERY	0.0
SB-006	7/9/97	2225		X	003-SB-006-10-BR	1	—	1						0.0
SB-006	7/9/97	2310		X	003-SB-006-11-BR	1	—	1						0.0
SB-006	7/9/97	2334		X	003-SB-006-12-BR	1	—	1						0.0
(TB) SB-~~DUP~~	7/9/97	0000		X	003-SB-DP1-01-BR	1	—	1						—
SB-006	7-10-97	0015		X	003-SB-006-13-BR	1	—	1						0.0
SB 006	7/10/97	0110		X	003-SB-006-14-BR	1	-	1						0.0

RELINQUISHED BY (SIGNATURE): Terry Rojek	DATE / TIME: 7/10/97 0200	RECEIVED BY(SIGNATURE): SECURE INSIDE FIELD TRAILER	RELINQUISHED BY (SIGNATURE):	DATE / TIME: 7/10/97 0200	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: FIELD GC BER TRAILER	

Order No. 70440 (0693)

BK-003

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	

SAMPLERS (SIGNATURE): Tony Royal

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vial w/HCl	VUGS 2oz Jar					REMARKS
													FID
TB-003	7/10/97	1755		X	003-TB-003-01-BR	2	2						NA
SB-P07	7/10/97	1800		X	003-SB-P07-01-BR	1	—	1					0.0
SB-P07	7/10/97	1810		X	003-SB-P07-02-BR	1	—	1					0.0
SB-P07	7/10/97	1825		X	003-SB-P07-03-BR	1	—	1					0.0
SB-P07	7/10/97	1840		X	003-SB-P07-04-BR	1	—	1					0.0
SB-P07	7/10/97	1915		X	003-SB-P07-05-BR	1	—	1				MS	1.7
SB-P07	7/10/97	1925		X	003-SB-P07-06-BR	1	—	1					0.0
SB-P07	7/10/97	2145		X	003-SB-P07-07-BR	1	—	1					0.0
SB-P07	7/10/97	0000		X	003-SB-DP1-02-BR	1	—	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Royal	7/11/97 0215	SECURE IN B&R FIELD TRAILER		7/11/97 0800	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: FIELD GC B&R TRAILER	

Order No. 70440 (0693)

BR- [illegible]4

CHAIN C USTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): John G Webster

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOCs 40ml Vials w/HCl	VOCs 2oz Jar					REMARKS: FID
TB-004	7/11/97	1645		X	003-TB-004-01-BR	2	2						NA
SB-P07	7/11/97	1940		X	003-SB-P07-08-BR	1	–	1					1.7
SB-P07	7/11/97	2230		X	003-SB-P07-10-BR	1	–	1					2.5
SB-P07	7/11/97	2300		X	003-SB-P07-11-BR	1	–	1					1.3
SB-P07	7/11/97	2345		X	003-SB-P07-12-BR	1	–	1					1.5
SB-P07	7/12/97	0115		X	003-SB-P07-14-BR	1	–	1					0.0
SB DUP	7/11/97	0000		X	003-SB-DP1-03-BR	1	–	1					–

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Segal	7/12/97 0215	SECURED IN BER FIELD TRAILER		7/12/97 0800	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: FIELD GC BER TRAILER	

Order No. 70440 (0693)

BR - 005

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rozak, John G Debsto

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml VIAL	TCL VOCs 2oz JAR					REMARKS	FID
TB-004	7/12	1536		X	003-TB-005~~4~~-01-BR	2	2						TRIP BLANK	NA
SB-P03	7/12	1650		X	003-SB-P03-01-BR	1	-	1						2.5
SB-P03	7/12	1700		X	003-SB-P03-02-BR	1	-	1					"PRIORITY SAMPLE"	1.5
SB-P03	7/12	1715		X	003-SB-P03-03-BR	1	-	1					"PRIORITY SAMPLE"	1.8
SB-P03	7/12	1750		X	003-SB-P03-04-BR	1	-	1						0.0
SB-P03	7/12	1820		X	003-SB-P03-05-BR	1	-	1						0.4
SB-P03	7/12	1826		X	003-SB-P03-06-BR	1	-	1						0.3
SB-P03	7/12	1845		X	003-SB-P03-07-BR	1	-	1						1.3
SB-P03	7/12	2310		X	003-SB-P03-09-BR	1	-	1						0.0
SB P03	7/12	2335		X	003-SB-P03-10-BR	1	-	1						0.9
SB-DUP	7/12	0000		X	003-SB-DP1-04-BR	1	-	1						-
SB-P03	7/13	0020		X	003-SB-P03-11-BR	1	-	1						0.0
SB-P03	7/13	0040		X	003-SB-P03-12-BR	1	-	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozak	7/13/97 0205	SECURED IN BER FIELD TRAILER		7/13/97 1800	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

BR-05

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Kozak	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40ml Vials w/HCl VOCs	VOCs JAR 2oz					REMARKS / FID
TB-006	7/13	1500		X	003-TB-006-01-BR	2	2						NA
SB-P03	7/13	1610		X	003-SB-P03-18-BR	1	-	1					0.0
SB-P03	7/13	1740		X	003-SB-P03-15-BR	1	-	1					0.0
SB-003	7/13	2025		X	003-SB-003-01-BR	1	-	1					0.0
SB-003	7/13	2035		X	003-SB-003-02-BR	1	-	1					PRIORITY SAMPLE 0.0
SB-003	7/13	2125		X	003-SB-003-03-BR	1	-	1					PRIORITY SAMPLE 0.0
SB-003	7/13	2140		X	003-SB-003-04-BR	1	-	1					0.0
SB-003	7/13	2150		X	003-SB-003-05-BR	1	-	1					0.0
SB-003	7/13	2200		X	003-SB-003-06-BR	1	-	1					0.0
SB-003	7/13	2235		X	003-SB-003-08-BR	1	-	1					0.0
SB-003	7/13	0000		X	003-SB-DP1-05-BR	1	-	1					-

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Kozak	7/14/97 0230	SECURED IN BER TRAILER		7/14/97 0800	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

BR-007

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature] Tony Rozak

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	VOCs 202 JAR					REMARKS	FID
TB-007	7/14	1600		X	003-TB-007-01-BR	2	2							NA
SB-003	7/14	1640		X	003-SB-003-10-BR	1	-	1						0.0
SB-013	7/14	1745		X	003-SB-013-01-BR	1	-	1						0.0
SB-013	7/14	1755		X	003-SB-013-02-BR	1	-	1					PRIORITY SAMPLE	0.0
SB-013	7/14	1805		X	003-SB-013-03-BR	1	-	1					PRIORITY SAMPLE	0.0
SB-013	7/14	1820		X	003-SB-013-04-BR	1	-	1						0.0
SB-013	7/14	1840		X	003-SB-013-05-BR	1	-	1						0.0
SB-013	7/14	1935		X	003-SB-013-06-BR	1	-	1						0.0
SB-013	7/14	2220		X	003-SB-013-07-BR	1	-	1						1.3
SB-013	7/14	2250		X	003-SB-013-08-BR	1	-	1						1.5
SB-013	7/14	2310		X	003-SB-013-09-BR	1	-	1					MS	3.2

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Rozak	7/15/97 0150	SECURED IN BAR FIELD TRAILER		7/15/97 0800	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C USTODY RECORD

PROJECT NO.:	SITE NAME:
69666	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rozak / John G Webster

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml VIALS w/HCl	VOCs 2oz JAR					REMARKS
TB-008	7/15	1400		X	003-TB-008-01-BR	2	2						FID NA
SB-013	7/15	1735		X	003-SB-013-11-BR	1	-	1					6.2
SB-DUP	7/15	0000		X	003-SB-DP1-06-BR	1	-	1					~~0~~ TR

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozak	7/15/97 1915			7/15/97 1930	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN O. JSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40ml Vials w/HCl VOCs						REMARKS
SW-001	7/16	0920		X	003-SW-001-01-BR	2	2						SOURCE WATER
SW-001	7/16	0935		X	003-SW-002-02-BR	2	2						" "

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	7/16/97 0955			7/16/97 0956	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				To be analized by field GC	

Order No. 70440 (0693)

BR-010

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojah [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vials w/HCl	VOCS 2oz Jar					REMARKS	FID
TB-009	7/21	1530		X	003-TB-009-01-BR	2	2							—
SB-008	7/21	1635		X	003-SB-008-01-BR	1	—	1						0.0
SB-008	7/21	1655		X	003-SB-008-02-BR	1	—	1					"PRIORITY"	0.0
SB-008	7/21	1700		X	003-SB-008-03-BR	1	—	1					"PRIORITY"	0.0
SB-008	7/21	1715		X	003-SB-008-04-BR	1	—	1						4.1
SB-008	7/21	1730		X	003-SB-008-05-BR	1	—	1					DO MS	4.1
SB-008	7/21	1750		X	003-SB-008-06-BR	1	—	1						0.0
SB-008	7/21	1825		X	003-SB-008-07-BR	1	—	1						0.0
SB-008	7/21	1840		X	003-SB-008-08-BR	1	—	1						0.0
SB-008	7/21	2200		X	003-SB-008-09-BR	1	—	1						0.0
SB-008	7/21	2235		X	003-SB-008-10-BR	1	—	1						0.0
SB-008	7/21	2305		X	003-SB-008-11-BR	1	—	1						0.0
SB-008	7/21	0000		X	003-SB-DP1-07-BR	1	—	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojah	7/21/97 2350	SECURE IN FIELD TRAILER		7/21/97 0715	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C USTODY RECORD

BR-011

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rozak, John G Robertson

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vial w/HCl	VOCs 2oz Jar	REMARKS	FID
TB-010	7/22	1420		X	003-TB-010-01-BR	2	2			~~0.3~~ (TR)
SB-008	7/22	1615		X	003-SB-008-~~12-BR~~ 12-BR (TR)	1	-	1	Do MS	0.3
SB-008	7/22	1710		X	003-SB-008-13-BR	1	-	1		0.0
SB-008	7/22	1750		X	003-SB-008-14-BR	1	-	1		0.0
SB-008	7/22	1830		X	003-SB-008-15-BR	1	-	1		0.0
SB-004	7/22	2015		X	003-SB-004-01-BR	1	-	1		0.0
SB-004	7/22	2025		X	003-SB-004-02-BR	1	-	1	"PRIORITY"	0.0
SB-004	7/22	2030		X	003-SB-004-03-BR	1	-	1	"PRIORITY"	0.0
SB-004	7/22	2045		X	003-SB-004-04-BR	1	-	1		0.0
SB-004	7/22	2055		X	003-SB-004-05-BR	1	-	1		0.0
SB-004	7/22	2115		X	003-SB-004-06-BR	1	-	1		0.0
SB-004	7/22	2130		X	003-SB-004-07-BR	1	-	1		0.0
SB-004	7/22	2150		X	003-SB-004-08-BR	1	-	1		0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozak	7/23/97 0110	SECURE IN FIELD TRAILER		7/23/97 0700	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

BR-012

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml w/HCl	VOCs 2oz JAR					REMARKS	FID
TB-011	7/23	1405		X	003-TB-011-01-BR	2	2							NA (TR) 0.0
SB-038	7/23	1640		X	003-SB-038-01-BR	1	-	1						0.0
SB-038	7/23	1650		X	003-SB-038-02-BR	1	-	1					"PRIORITY"	1.0
SB-038	7/23	1700		X	003-SB-038-03-BR	1	-	1					"PRIORITY"	1.1
SB-038	7/23	1725		X	003-SB-038-04-BR	1	-	1						3.5
SB-038	7/23	1735		X	003-SB-038-05-BR	1	-	1						11.8
SB-038	7/23	1820		X	003-SB-038-06-BR (TR)	1	-	1						0.0
SB-038	7/23	1830		X	003-SB-038-08-BR	1	-	1						0.0
SB-038	7/23	2145		X	003-SB-038-10-BR	1	-	1						0.0
SB-038	7/23	2210		X	003-SB-038-11-BR	1	-	1						0.0
SB-038	7/23	2240		X	003-SB-038-12-BR	1	-	1						0.0
SB-038	7/23	2350		X	003-SB-038-14-BR	1	-	1						0.0
SB-DP1	7/23	0000		X	003-SB-DP1-08-BR	1	-	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	7/24/23 0100				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

BR-013

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn John G Wolstad

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml w/HCl	VOCs 2oz Jar					REMARKS	FID
TB-012	7/24	1450		X	003-TB-012-01-BR	2	2							NA
SB-073	7/24	1605		X	003-SB-073-01-BR	1	-	1						0.4
SB-073	7/24	1615		X	003-SB-073-02-BR	1	-	1					"PRIORITY"	3.9
SB-073	7/24	1625		X	003-SB-073-03-BR	1	-	1					"PRIORITY"	2.9
SB-073	7/24	1635		X	003-SB-073-04-BR	1	-	1						1.4
SB-073	7/24	1640		X	003-SB-073-05-BR	1	-	1						2.5
SB-073	7/24	1655		X	003-SB-073-06-BR	1	-	1						0.0
SB-073	7/24	1710		X	003-SB-073-07-BR	1	-	1					MS	1.2
SB-073	7/24	1730		X	003-SB-073-08-BR	1	-	1						0.6
SB-073	7/24	2030		X	003-SB-073-09-BR	1	-	1						0.0
SB-073	7/24	2055		X	003-SB-073-10-BR	1	-	1						0.0
SB-073	7/24	2120		X	003-SB-073-11-BR	1	-	1						0.0
SB-073	7/24	2150		X	003-SB-073-12-BR	1	-	1						0.0
SB-073	7/24	0000		X	003-SB-DP1-09-BR	1	-	1					DUP	—

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	7/24/97 2355	SECURED IN FIELD TRAILER		7/25/97 1010	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				To be ANALIZED by FIELD GC	

Order No. 70440 (0693)

BR - 014

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY
SAMPLERS (SIGNATURE):	John G Webster

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 2oz JAR						REMARKS
													FID
SB-073	7/24	2300		X	003-SB-073-14-BR	(FIX) 1	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
John G Webster	7/24/97 1355	SECURED IN FIELD TRAILER		7/25/97 1000	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-015

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rogers John G Webster	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml VIALS w/HCl	TCL VOCS 20z JAR					REMARKS	FID
TB-013	7/25	1500		X	003-TB-013-01-BR	2	2							NA ~~4.1~~ (TL)
SB-017 (TB)	7/25	1605		X	003-SB-017-01-BR	1	-	1						4.1 ~~3.2~~ (TL)
SB-017	7/25	1620		X	003-SB-017-02-BR	1	-	1						3.2
SB-017	7/25	1645		X	003-SB-017-03-BR	1	-	1					MS	5.4
SB-017	7/25	1700		X	003-SB-017-04-BR	1	-	1						1.7
SB-017	7/25	1715		X	003-SB-017-05-BR	1	-	1						5.3
SB-017	7/25	1735		X	003-SB-017-06-BR	1	-	1						5.4
SB-017	7/25	1750		X	003-SB-017-07-BR	1	-	1						3.5
SB-017	7/25	1815		X	003-SB-017-08 BR	1	-	1						1.7
SB-017	7/25	2110		X	003-SB-017-10-BR	1	-	1						1.3
SB-017	7/25	2140		X	003-SB-017-11-BR	1	-	1						5.2
SB-017	7/25	2215		X	003-SB-017-12-BR	1	-	1						0.8
SB-017	7/25	0000		X	003-SB-DP1-10-BR	1	-	1					DUP	—

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogers	7/26/97 0000	SECURED IN FIELD TRAILER		7/26/97 0900	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TRASH ODOR ON SOME SAMPLES! TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

BR-016

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml Vials w/HCl	VOCS 2oz JAR					REMARKS	FID
TB-014	7/26	1210		X	003-TB-014-01-BR	2	2						TRIP BLANK	NA
SB-016	7/26	1315		X	003-SB-016-01-BR	1	–	1					~~"PRIORITY"~~ (TR)	0.0
SB-016	7/26	1330		X	003-SB-016-02-BR	1	–	1					"PRIORITY"	0.1
SB-016	7/26	1350		X	003-SB-016-03-BR	1	–	1					"PRIORITY"	0.9
SB-016	7/26	1405		X	003-SB-016-04-BR	1	–	1						3.9
SB-016	7/26	1420		X	003-SB-016-05-BR	1	–	1						2.0
SB-016	7/26	1430		X	003-SB-016-06-BR	1	–	1						1.2
SB-016	7/26	1445		X	003-SB-016-07-BR	1	–	1						0.1
SB-016	7/26	1515		X	003-SB-016-08-BR	1	–	1						0.0
SB-016	7/26	1720		X	003-SB-016-09-BR	1	–	1						0.0
SB-016	7/26	1800		X	003-SB-016-10-BR	1	–	1						0.3
BB-001	7/26	1905		X	003-BB-001-01-BR	2	2	–					BATCH BLANK	NA
SB-018	7/26	1940		X	003-SB-018-01-BR	1	–	1						1.6
SB-018	7/26	1945		X	003-SB-018-02-BR	1	–	1					"PRIORITY" MS	2.2

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojahn	7/26/97 ~~2330~~ 2330 (TR)	SECURED IN FIELD TRAILER		7/27/97 1000	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C USTODY RECORD BR-017

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tony Rojah

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOCs 202 BAGS						REMARKS	FID
SB-018	7/26	1950		X	003-SB-018-03-BR	1	1						"PRIORITY"	1.6
SB-018	7/26	2000		X	003-SB-018-04-BR	1	1							2.3
SB-018	7/26	2010		X	003-SB-018-05-BR	1	1							2.1
SB-018	7/26	2025		X	003-SB-018-06-BR	1	1							5.5
SB-018	7/26	2040		X	003-SB-018-07-BR	1	1							2.2
SB-018	7/26	2100		X	003-SB-018-08-BR	1	1							1.6
SB-DP1	7/26	0000		X	003-SB-DP1-11-BR	1	1							—
SB-DP1	7/26	0000		X	003-SB-DP1-12-BR	1	1							—
SB-DP1	7/26	0000		X	003-SB-DP1-13-BR	1	1							—

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Rojah	7/26/97 2330	SECURE IN FIELD TRAILER		7/27/97 1000	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-018

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature] [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vial w/HCl	VOC 2oz JAR					REMARKS	FID
TB-015	7/27	1240		X	003-TB-015-01-BR	2	2							NA
SB-018	7/27	1310		X	003-SB-018-09-BR	1	-	1						0.2
SB-018	7/27	1330		X	003-SB-018-10-BR	1	-	1						3.0
SB-018	7/27	1350		X	003-SB-018-11-BR	1	-	1						2.3
SB-018	7/27	1415		X	003-SB-018-12-BR	1	-	1					MS	3.2
SB-018	7/27	1435		X	003-SB-018-13-BR	1	-	1						3.5
SB-018	7/27	1530		X	003-SB-018-15-BR	1	-	1						2.3
SB-074	7/27	1620		X	003-SB-074-01-BR	1	-	1						0.3
SB-074	7/27	1635		X	003-SB-074-02-BR	1	-	1					"PRIORITY"	0.1
SB-074	7/27	1645		X	003-SB-074-03-BR	1	-	1					"PRIORITY"	0.8
SB-074	7/27	1650		X	003-SB-074-04-BR	1	-	1						0.8
SB-074	7/27	1700		X	003-SB-074-05-BR	1	-	1						0.1
SB-074	7/27	1715		X	003-SB-074-06-BR	1	-	1						0.0
SB-074	7/27	1730		X	003-SB-074-07-BR	1	-	1						0.4

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	7/27/97 2140			7/27/97 2140	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

BR-019

CHAIN C USTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 2oz JAR							REMARKS
														FID
SB-074	7/27	1745		X	003-SB-074-08-BR	1	1							0.3
SB-074	7/27	1945		X	003-SB-074-09-BR	1	1							0.0
SB-074	7/27	2005		X	003-SB-074-10-BR	1	1							0.9
SB-074	7/27	2030		X	003-SB-074-11-BR	1	1							0.3
SB-DP1	7/27	0000		X	003-SB-DP1-14-BR	1	1							-

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	7/27/97 2140			7/27/97 2140	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-020

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rozak

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml VIAL W/HCl	VOCs 2oz JAR					REMARKS	FID
TB-016	7/28	1450		X	003-TB-016-01-BR	2	2							NA
SB-035	7/28	1805		X	003-SB-035-01-BR	1	-	1						0.0
SB-035	7/28	1810		X	003-SB-035-02-BR	1	-	1						0.0
SB-035	7/28	1820		X	003-SB-035-03-BR	1	-	1						0.0
SB-035	7/28	1850		X	003-SB-035-04-BR	1	-	1						0.0
SB-035	7/28	1905		X	003-SB-035-05-BR	1	-	1						0.0
SB-035	7/28	1920		X	003-SB-035-06-BR	1	-	1						0.0
SB-035	7/28	2030		X	003-SB-035-07-BR	1	-	1						0.0
SB-035	7/28	2050		X	003-SB-035-08-BR	1	-	1						0.0
SB-035	7/28	2340		X	003-SB-035-09-BR	1	-	1						0.0
SB-035	7/~~28~~ 29	0000		X	003-SB-035-10-BR	1	-	1					MS	2.3
SB-035	7/~~28~~ 29	0025		X	003-SB-035-11-BR	1	-	1						0.0
SB-035	7/29	0045		X	003-SB-035-12-BR	1	-	1						0.0
SB-DP1	7/28	0000		X	003-SB-DP1-15-BR	1	-	1						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozak	7/29/97	SECURE IN FIELD TRAILER		7/29/97 1015	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C USTODY RECORD

BR-021

PROJECT NO.:	SITE NAME:
6966	NIAGUP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rozak

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml VIAL W/HCl	VOCs 2oz JAR					REMARKS	FID
TB-017	7/29	1215		X	003-TB-017-01-BR	2	2							NA
SB-034	7/29	1255		X	003-(TX)SB-034-01-BR	1	-	1						0.0
SB-034	7/29	1305		X	003-SB-034-02-BR	1	-	1					"PRIORITY"	0.0
SB-034	7/29	1315		X	003-SB-034-03-BR	1	-	1					"PRIORITY"	0.0
SB-034	7/29	1320		X	003-SB-034-04-BR	1	-	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozak	7/29/97 1830			7/29/97 1501	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-022

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojek, John G. Webster II

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vial w/HCl	VOCs 202 JAR					REMARKS FID
TB-018	8/4	1435		X	003-TB-018-01-BR	2	1						NA
SB-054	8/4	1600		X	003-SB-054-01-BR	1	-	1					0.0
SB-054	8/4	1620		X	003-SB-054-02-BR	1	-	1					6.2
SB-054	8/4	1650		X	003-SB-054-03-BR	1	-	1					0.0
SB-054	8/4	1705		X	003-SB-054-04-BR	1	-	1					0.0
SB-054	8/4	1725		X	003-SB-054-05-BR	1	-	1					0.0
SB-054	8/4	1750		X	003-SB-054-06-BR	1	-	1					0.0
SB-054	8/4	1810		X	003-SB-054-07-BR	1	-	1					0.0
SB-054	8/4	1830		X	003-SB-054-08-BR	1	-	1					0.0
SB-054	8/4	2030		X	003-SB-054-09-BR	1	-	1					0.0
SB-054	8/4	2050		X	003-SB-054-10-BR	1	-	1					0.0
SB-054	8/4	2120		X	003-SB-054-11-BR	1	-	1					0.0
SB-054	8/4	2150		X	003-SB-054-12-BR	1	-	1					0.0
SB-054	8/4	2210		X	003-SB-054-13-BR	1	-	1					0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojek	8/5/97 0930	SECURE IN FIELD TRAILER		8/5/97 0930	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C 'USTODY RECORD

BR-023

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn [signature]

STATION NO.	DATE 87	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOC 202 JAR						REMARKS FID
SB-054	8/4	2240		X	003-SB-054-14-BR	1	1						0.0
SB-DP1	8/4	0000		X	003-SB-DP1-16-BR	1	1						0.0
SB-DP1	8/4	0000		X	003-SB-DP1-17-BR	1	1						0.0
SB-054	8/5	0005		X	003-SB-054-15-BR	1	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	8/5/97 0030	SECURE IN FIELD TRAILER	[signature]	8/5/97 1000	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-024

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rogahn	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vials w/HCl	TCL VOCs 2oz JAR	REMARKS	FID
TB-019	8/5	1435		X	003-TB-019-01-BR	2	2			NA
SB-063	8/5	1610		X	003-SB-063-01-BR	1	-	1		0.4
SB-063	8/5	1620		X	003-SB-063-02-BR	1	-	1	"PRIORITY"	0.0
SB-063	8/5	1630		X	003-SB-063-03-BR	1	-	1	"PRIORITY"	0.0
SB-063	8/5	1640		X	003-SB-063-04-BR	1	-	1	SHIPPED to LAUCKS FOR ANALYSIS 8/11	6.3
SB-063	8/5	1710		X	003-SB-063-06-BR	1	-	1		0.0
SB-063	8/5	1730		X	003-SB-063-07-BR	1	-	1		0.0
SB-063	8/5	1800		X	003-SB-063-08-BR	1	-	1		0.0
SB-063	8/5	2030		X	003-SB-063-09-BR	1	-	1		0.0
SB-063	8/5	2130		X	003-SB-063-10-BR	1	-	1		0.0
SB-063	8/5	2225		X	003-SB-063-11-BR	1	-	1		0.0
SB-063	8/5	2300		X	003-SB-063-12-BR	1	-	1		0.0
SB-DP1	8/5	0000		X	003-SB-DP1-18-BR	1	-	1	DUP	—

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogahn	8/6/97 0200	SECURED IN FIELD TRAILER		8/6/97 1030	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C USTODY RECORD

BR-025

PROJECT NO.:	SITE NAME:
6966	NIROP FRIOLEY

SAMPLERS (SIGNATURE): Terry Rozahn

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml VIAL w/HCl	VOCs 2oz JAR					REMARKS	FID
TB-020	8/6	1510		X	003-TB-020-01-BR	2	2						*	NA
SB-063	8/6	1700		X	003-SB-063-14-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS 8/11	0.0
SB-037	8/6	1815		X	003-SB-037-01-BR	1	-	1						0.0
SB-037	8/6	1830		X	003-SB-037-02-BR	1	-	1					"PRIORITY"	0.0
SB-037	8/6	1835		X	003-SB-037-03-BR	1	-	1					"PRIORITY"	0.0
SB-037	8/6	1850		X	003-SB-037-04-BR	1	-	1						0.0
SB-037	8/6	1905		X	003-SB-037-05-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS 8/11	0.0
SB-037	8/6	1925		X	003-SB-037-06-BR	1	-	1						0.0
SB-037	8/6	2025		X	003-SB-037-08-BR	1	-	1						0.0
SB-037	8/6	2250		X	003-SB-037-09-BR	1	-	1						0.0
SB-037	8/6	2340		X	003-SB-037-10-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS 8/11	0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozahn	8/7/97 0130	SECURE IN FIELD TRAILER		8/7/97 1000	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC.	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR- 026

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogahn [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vial w/HCl	VOCS 2oz JAR					REMARKS	FID
TB-021	8/7	1535		X	003-TB-021-01-BR	2	2							NA
SB-P06	8/7	1635		X	003-SB-P06-01-BR	1	-	1						5.0
SB-P06	8/7	1650		X	003-SB-P06-02-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS 8/11	0.0
SB-P06	8/7	1700		X	003-SB-P06-03-BR	1	-	1						0.0
SB-P06	8/7	1725		X	003-SB-P06-04-BR	1	-	1						0.0
SB-P06	8/7	1750		X	003-SB-P06-05-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS 8/11	0.0
SB-P06	8/7	1820		X	003-SB-P06-06-BR	1	-	1						0.0
SB-P06	8/7	1850		X	003-SB-P06-07-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS MS 8/11	6.3
SB-DP1	8/7	0000		X	003-SB-DP1-19-BR	1	-	1					DUP	—
SB-P01	8/7	2315		X	003-SB-P01-01-BR	1	-	1						0.0
SB-P01	8/7	2330		X	003-SB-P01-02-BR	1	-	1						0.0
SB-P01	8/7	2345		X	003-SB-P01-03-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS 8/11	0.0
SB-P01	8/8	0003		X	003-SB-P01-04-BR	1	-	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogahn	8/8/97	SECURE IN FIELD TRAILER		8/10/97 900	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZE BY FIELD GC	

Order No. 70440 (0693)

BR-02

CHAIN C USTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Royal

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOC's 40ml VIAL W/HCl	VOCS 202 JAR					REMARKS	FID
TB-022	8/8	1455		X	003-TB-022-01-BR	2	2						TRIP BLANK	NA
SB-P01	8/8	1610		X	003-SB-P01-05-BR	1	-	1					SHIPPED TO LAUCKS FOR ANALYSIS 8/11	0.0
SB-P01	8/8	1650		X	003-SB-P01-06-BR	1	-	1						0.0
SB-P01	8/8	1705		X	003-SB-P01-07-BK	1	-	1						0.0
SB-P01	8/8	1735		X	003-SB-P01-08-BR	1	-	1						0.0
SB-P01	8/8	2035		X	003-SB-P01-09-BR	1	-	1					SHIPPED TO LAUCKS FOR ANALYSIS 8/11	0.6
SB-DP1	8/6	0000		X	003-SB-DP1-20-BK	1	-	1					DUP	—

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Royal	8/9/97 0005	SECURED IN FIELD TRAILER		8/9/97 0830	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

BR-028

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rydell

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	TCL VOCs 40ml Vial w/ HCl	TCL VOCs 2oz Jar					REMARKS	FID
TB-023	8/9	1145		X	003-TB-023-01-BR	2	2							NA
SB-023	8/9	1245		X	003-SB-023-01-BR	1	-	1						0.0
SB-023	8/9	1250		X	003-SB-023-02-BR	1	-	1					"PRIORITY"	0.0
SB-023	8/9	1255		X	003-SB-023-03-BR	1	-	1					"PRIORITY"	0.3
SB-023	8/9	1305		X	003-SB-023-04-BR	1	-	1						0.0
SB-023	8/9	1315		X	003-SB-023-05-BR	1	-	1					SHIP to LAUCKS FOR ANALYSIS 8/13	3.7
SB-023	8/9	1330		X	003-SB-023-06-BR	1	-	1						3.7
SB-023	8/9	1345		X	003-SB-023-07-BR	1	-	1						3.0
SB-023	8/9	1400		X	003-SB-023-08-BR	1	-	1						1.5
SB-023	8/9	1620		X	003-SB-023-09-BR	1	-	1						0.9
SB-023	8/9	1635		X	003-SB-023-10-BR	1	-	1						1.3
SB-023	8/9	1715		X	003-SB-023-12-BR	1	-	1						1.3
SB-023	8/9	1800		X	003-SB-023-13-BR	1	-	1						1.5
SB-023	8/9	1830		X	003-SB-023-14-BR	1	-	1						1.3

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rydell	8/9/97 2130	SECURED IN FIELD TRAILER		8/10/97 0830	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

BK - 023

CHAIN C USTODY RECORD

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Tony Rozak	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOCs 202 JAR						REMARKS	FID
SB-023	8/9	2025		X	003-SB-023-15-BR	1	1						SHIP to LAUCKS FOR ANALYSIS 8/13	1.5
SB-DP1	8/9	0000		X	003-SB-DP1-21-BR	1	1							1.3

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Rozak	8/9/97 2130	SECURED IN FIELD TRAILER		8/10/97 0824	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-030

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rozak

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOC 40ml Vials w/HCl	VOC 2oz JAR			A		REMARKS	FID
TB-024	8/10	1200		X	003-TB-024-01-BR	2	2							NA
SB-P12	8/10	1330		X	003-SB-P12-01-BR	1	-	1						0.0
SB-P12	8/10	1340		X	003-SB-P12-02-BR	1	-	1					"PRIORITY"	0.0
SB-P12	8/10	1350		X	003-SB-P12-03-BR	1	-	1					"PRIORITY"	0.0
SB-P12	8/10	1400		X	003-SB-P12-04-BR	1	-	1						0.2
SB-P12	8/10	1410		X	003-SB-P12-05-BR	1	-	1						0.0
SB-P12	8/10	1435		X	003-SB-P12-06-BR	1	-	1					MS	1.6 0.0
SB-P12	8/10	1455		X	003-SB-P12-08-BR	1	-	1						0.0
SB-P12	8/10	1610		X	003-SB-P12-09-BR	1	-	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozak	8/10/97 2200	SECURED IN FIELD TRAILER		8/11/97 1255	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C USTODY RECORD BR-031

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rozsa	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vial w/HCl	VOCS 202 JAR					REMARKS	FID
TB-025	8/11	1415		X	003-TB-025-01-BR	2	2							NA
SB-P12	8/11	1605		X	003-SB-P12-10(TL)-BR	1	-	1						0.0
SB-P12	8/11	1630		X	003-SB-P12-11-BR	1	-	1					SHIP TO LAUCKS FOR ANALYSIS 8/13	0.0
SB-036	8/12	1630		X	003-SB-036-01-BR	1	-	1						0.0
SB-036	8/12	1635		X	003-SB-036-02-BR	1	-	1						0.0
SB-036	8/12	1645		X	003-SB-036-03-BR	1	-	1						0.0
SB-036	8/12	1655		X	003-SB-036-04-BR	1	-	1						0.0
SB-036	8/12	1715		X	003-SB-036-05-BR	1	-	1					SHIP TO LAUCKS FOR ANALYSIS 8/13	5.7
SB-036	8/12	1730		X	003-SB-036-06-BR	1	-	1						0.2
SB-036	8/12	1805		X	003-SB-036-07-BR	1	-	1					SHIP TO LAUCKS FOR ANALYSIS 8/13	1.0 0.7(TL)
SB-DUP	8/12	0000		X	003-SB-DP1-22-BR	1	-	1					SHIP TO LAUCKS FOR ANALYSIS 8/13	—

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozsa	8/12/97 2300			8/12/97 2300	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	

Order No. 70440 (0693)

BR - 032

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogahn

STATION NO.	DATE '97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	VOCs 202 JAR					REMARKS	FID
TB-026	8/18	1555		X	003-TB-026-01-BR	2	2							NA
SB-P02	8/18	2120		X	003-SB-P02-01-BR	1	-	1					MS	0.4
SB-P02	8/18	2130		X	003-SB-P02-02-BR	1	-	1					~~PRIORITY~~ (TR)	0.0
SB-P02	8/18	2140		X	003-SB-P02-03-BR	1	-	1					~~PRIORITY~~ (TR)	0.9
SB-P02	8/18	2155		X	003-SB-P02-04-BR	1	-	1						0.0
SB-P02	8/18	2215		X	003-SB-P02-05-BR	1	-	1					SHIPPED TO LAUCKS FOR ANALYSIS 8/21	0.0
SB-P02	8/18	2300		X	003-SB-P02-07-BR	1	-	1						0.0
SB-P02	8/18	2335		X	003-SB-P02-08-BR	1	-	1						0.0
SB-DP1	8/18	0000		X	003-SD-DP1-23-BR	1	-	1					SHIPPED TO LAUCKS FOR ANALYSIS 8/21	0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogahn	8/19/97 0005	SECURED IN FIELD TRAILER		9/26/97 1200	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C USTODY RECORD

BR-037

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rojahn	[signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vials w/HCl	VOCS 2oz JAR					REMARKS	FID
TB-027	8/19	1520		X	003-TB-027-01-BR	2	2							NA
SB-P02	8/19	1630		X	003-SB-P02-09-BR	1	-	1						0.0
SB-P02	8/19	1700		X	003-SB-P02-10-BR	1	-	1					MS	0.8
SB-P02	8/19	1730		X	003-SB-P02-11-BR	1	-	1						0.0
SB-P02	8/19	1755		X	003-SB-P02-12-BR	1	-	1						0.0
SB-P02	8/19	1825		X	003-SB-P02-13-BR	1	-	1						0.0
SB-P02	8/19	1850		X	003-SB-P02-14-BR	1	-	1						0.0
SB-P02	8/19	1925		X	003-SB-P02-15-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS 8/21	0.0
SB-058	8/19	2135		X	003-SB-058-01-BR	1	-	1						0.2
SB-058	8/19	2150		X	003-SB-058-02-BR	1	-	1						0.0
SB-058	8/19	2200		X	003-SB-058-03-BR	1	-	1						0.0
SB-058	8/19	2215		X	003-SB-058-04-BR	1	-	1						0.0
SB-058	8/19	2230		X	003-SB-058-05-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS 8/21	4.9
SB-058	8/19	2245		X	003-SB-058-06-BR	1	-	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojahn	8/20/97 0200	SECURED IN FIELD TRAILER		8/26/97 1258	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

BR-034

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature] [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 202 JAR						REMARKS / FID
SB-058	8/19	2300		X	003-SB-058-07-BR	1	1						0.0
SB-058	8/19	2320		X	003-SB-058-08-BR	1	1						0.0
SB-DP1	8/19	0000		X	003-SB-DP1-24-BR	1	1						0.0
SB-DP1	8/19	0000		X	003-SB-DP1-25-BR	1	1						SHIPPED TO LANCICS FOR ANALYSIS 8/21 —

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	8/20/97 0200	SECURED IN FIELD TRAILER		8/21/97 1258	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

BR-055

CHAIN C USTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): T Wilson / John G Debstadt

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOCs 40ml Vial w/HCl	VOCs 202 Jar					REMARKS	
TB-028	8/20	1600		X	003-TB-028-01-BR	2	2							NA
SB-058	8/20	1650		X	003-SB-058-09-BR	1	-	1						0.0
SB-058	8/20	1945		X	003-SB-058-11-BR	1	-	1						0.2
SB-058	8/20	2225		X	003-SB-058-12-BR	1	-	1						1.8
SB-058	8/20	2310		X	003-SB-058-13-BR	1	-	1						1.4
SB-058	8/21	0100		X	003-SB-058-14-BR	1	-	1						0.2
SB-058	8/21	0145		X	003-SB-058-15-BR	1	-	1					SHIPPED TO LANCKS FOR ANALYSIS 8/21	1.5
SB-DP1	8/20	0000		X	003-SB-DP1-26-BR	1	-	1						—

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
T Wilson	8/21/97 0230	SECURED IN FIELD TRAILER		8/21/97 1050	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

BR-056

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Leach, John G. Webster III	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vial w/HCl	VOCs 2oz JAR					REMARKS	FID
TB-029	8/21	1620		X	003-TB-029-01-BR	2	2							NA
SB-007	8/21	1715		X	003-SB-007-01-BR	1	-	1						0.0
SB-007	8/21	1730		X	003-SB-007-02-BR	1	-	1						0.0
SB-007	8/21	1740		X	003-SB-007-03-BR	1	-	1					MS	0.0
SB-007	8/21	1805		X	003-SB-007-04-BR	1	-	1						0.0
SB-007	8/21	1855		X	003-SB-007-05-BR	1	-	1					SHIPPED TO LAUCKS FOR ANALYSIS 8/22	0.0
SB-007	8/21	1925		X	003-SB-007-06-BR	1	-	1						0.0
SB-007	8/21	1955		X	003-SB-007-07-BR	1	-	1						0.0
SB-007	8/21	2020		X	003-SB-007-08-BR	1	-	1						0.0
SB-007	8/21	2250		X	003-SB-007-09-BR	1	-	1						0.0
SB-007	8/21	2315		X	003-SB-007-10-BR	1	-	1						0.0
SB-007	8/21	2345		X	003-SB-007-11-BR	1	-	1					SHIPPED TO LAUCKS FOR ANALYSIS 8/22	0.0
SB-DP1	0000 TZ	8/21		X	003-SB-DP1-27-BR	1	-	1					DUP	—
SB-DP1	0000 TZ	8/21		X	~~003-SB-DP1-28-BR~~ 003-SB-DP1-28-BR	1	-	1					DUP	—

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Leach	8/24/97 0245	SECURED IN FIELD TRAILER		8/26/97 1257	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C JSTODY RECORD

BR-037

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): [signature]	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml VIAL W/HCl	VOCS 2oz JAR					REMARKS	FID
TB-030	8/22	1455		x	003-TB-030-01-BR	2	2							NA
SB-027	8/22	1705		x	003-SB-027-01-BR	1	-	1						0.0
SB-027	8/22	1710		x	003-SB-027-02-BR	1	-	1						0.2
SB-027	8/22	1725		x	003-SB-027-03-BR	1	-	1						0.3
SB-027	8/22	1735		x	003-SB-027-04-BR	1	-	1						0.3
SB-027	8/22	1805		x	003-SB-027-05-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS 8/25	0.0
SB-027	8/22	2000		x	003-SB-027-06-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS 8/25	0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	8/23/97 0000	SECURED IN FIELD TRAILER		8/26/97 1257	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-038

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogers [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vial w/HCl	VOCS 2oz JAR					REMARKS	FID
SB-030	8/23	1210		X	003-TB-031-01-BR	2	2							NA
SB-030	8/23	1400		X	003-SB-030-01-BR	1	–	1						0.6
SB-030	8/23	1415		X	003-SB-030-02-BR	1	–	1					MS	3.2
SB-030	8/23	1435		X	003-SB-030-03-BR	1	–	1						0.8
SB-030	8/23	1530		X	003-SB-030-04-BR	1	–	1					SHIPPED to LAUCKS FOR ANALYSIS 8/25	5.0
SB-P09	8/23	1935		X	003-SB-P09-01-BR	1	–	1						1.3
SB-P09	8/23	1940		X	003-SB-P09-02-BR	1	–	1						1.8
SB-P09	8/23	1950		X	003-SB-P09-03-BR	1	–	1						10.6
SB-P09	8/23	2005		X	003-SB-P09-04-BR	1	–	1						5.7
SB-P09	8/23	2015		X	003-SB-P09-05-BR	1	–	1					SHIPPED to LAUCKS FOR ANALYSIS 8/25	2.5
SB-P09	8/23	2050		X	003-SB-P09-06-BR	1	–	1						205.0
SB-P09	8/23	2125		X	003-SB-P09-07-BR	1	–	1						138.9
SB-P09	8/23	2205		X	003-SB-P09-08-BR	1	–	1						3.5
DP1	8/23	0000		X	003-SB-DP1-29-BR	1	–	1					DUP (<10)	–
DP1	8/23	0000		X	003-SB-DP1-30-BR	1	–	1					DUP (>100)	–

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogers	8/23/97 2300	SECURED IN FIELD TRAILER		8/26/97 1254	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

BR-0-9

CHAIN C USTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature] [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml VIALS w/HCl	VOCS 2oz JAR					REMARKS	FID
TB-032	8/24	1315		X	003-TB-032-01-BR	2	2							NA
SB-P09	8/24	1435		X	003-SB-P09-09-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS (8/25)	18.0
SB-055	8/24	1600		X	003-SB-D55-01-BR	1	-	1					MS	0.0
SB-055	8/24	1610		X	003-SB-055-02-BR	1	-	1						0.0
SB-055	8/24	1615		X	003-SB-055-03-BR	1	-	1						0.0
SB-055	8/24	1625		X	003-SB-055-04-BR	1	-	1						0.0
SB-055	8/24	1630		X	003-SB-055-05-BR	1	-	1					SHIPPED to LAUCKS FOR ANALYSIS (8/25)	0.0
SB-055	8/24	1640		X	003-SB-055-06-BR	1	-	1						0.0
SB-055	8/24	1700		X	003-SB-055-07-BR	1	-	1						0.0
SB-055	8/24	1725		X	003-SB-055-08-BR	1	-	1						0.0
SB-055	8/24	1935		X	003-SB-055-09-BR	1	-	1						0.0
SB-055	8/24	2010		X	003-SB-055-10-BR	1	-	1						0.0
SB-DP1	8/24	0000		X	003-SB-DP1-31-BR								DUP	0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	8/24/97 2100	SECURE IN FIELD TRAILER		8/26/97 1256	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALIZED BY FIELD GC	

Order No. 70440 (0693)

BR-040

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Lopat

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCs 40ml Vial w/HCl	VOCs 20z JAR					REMARKS	FID
TB-033	8/25	1455		X	003-TB-033-01-BR	2	2						TRIP BLANK	NA
SB-055	8/25	1620		X	003-SB-055-11-BR	1	-	1						0.0
SB-055	8/25	1650		X	003-SB-055-12-BR	1	-	1					MS	0.0
SB-055	8/25	1720		X	003-SB-055-13-BR	1	-	1						0.0
SB-055	8/25	1800		X	003-SB-055-14-BR	1	-	1						0.0
SB-032	8/25	2105		X	003-SB-032-01-BR	1	-	1						1.0
SB-032	8/25	2115		X	003-SB-032-02-BR	1	-	1					"PRIORITY"	66.7
SB-032	8/25	2120		X	003-SB-032-03-BR	1	-	1					"PRIORITY"	418.9
SB-032	8/25	2130		X	003-SB-032-04-BR	1	-	1					~~MS~~ TL	109.3
SB-032	8/25	2145		X	003-SB-032-05-BR	1	-	1						5.0
SB-032	8/25	2205		X	003-SB-032-06-BR	1	-	1						0.0
SB-032	8/25	2340		X	003-SB-032-08-BR	1	-	1						0.0
SB-DP1	8/25	0000		X	003-SB-DP1-32-BR	1	-	1					DUP	0.0
SB-DP1	8/25	0000		X	003-SB-DP1-33-BR	1	TL	1					DUP	>100.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Lopat	8/25/97 2355	SECURED IN FIELD TRAILER		8/26/97 1255	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C USTODY RECORD

BR - 41

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): [signature]	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml Vial w/HCl	VOCS 2oz JAR					REMARKS	FID
TB-034	8/26	1510		X	003-TB-034-01-BR	2	2						TRIP BLANK	NA
SB-032	8/26	1630		X	003-SB-032-09-BR	1	–	1						1.3
SB-032	8/26	1655		X	003-SB-032-10-BR	1	–	1						0.0
SB-032	8/26	1725		X	003-SB-032-11-BR	1	–	1						0.0
SB-032	8/26	1815		X	003-SB-032-12-BR	1	–	1						0.0
SB-032	8/26	1840		X	003-SB-032-13-BR	1	–	1						0.0
SB-032	8/26	1925		X	003-SB-032-14-BR	1	–	1						0.0
SB-032	8/26	2010		X	003-SB-032-15-BR	1	–	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	8/26/97 2216			8/26/97 2216	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	

Order No. 70440 (0693)

BK-04C

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Spek Jeff G. Dahlstrom

STATION NO.	DATE 97	TIME 97	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40ml Vials VOCs w/HCl	VOCs 2oz Jars					REMARKS	FID
TB-035	9/2	1555		X	003-TB-035-01-BR	2	2							NA
SB-P08	9/2	2200		X	003-SB-P08-01-BR	1	-	1						0.0
SB-P08	9/2	2205		X	003-SB-P08-02-BR	1	-	1						0.0
SB-P08	9/2	2230		X	003-SB-P08-03-BR	1	-	1						0.0
SB-P08	9/2	2235		X	003-SB-P08-04-BR	1	-	1						0.0
SB-P08	9/2	2245		X	003-SB-P08-05-BR	1	-	1						0.0
SB-P08	9/2	2300		X	003-SB-P08-06-BR	1	-	1						0.0
SB-P08	9/2	2320		X	003-SB-P08-07-BR	1	-	1					MS	0.0
SB-P08	9/2	0000		X	003-SB-P08-08-BR	1	-	1						0.0
SB-DP1	9/2	0000		X	003-SB-DP1-034-BR	1	-	1						—

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Spek	9/3/97 0030	SECURED IN FIELD TRAILER	[illegible]	9/3/97 1300	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C[illegible]STODY RECORD

BR [illegible]

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rojahn [signature]	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml VIAL W/HCl	VOCs 2oz JAR					REMARKS	FID
TB-036	9/3	1530		X	003-TB-036-01-BR	2	2							NA
SB-P08	9/3	1630		X	003-SB-P08-09-BR	1	-	1						0.0
SB-P08	9/3	1815		X	003-SB-P08-12-BR	1	-	1						0.0
SB-P08	9/3	1845		X	003-SB-P08-13-BR	1	-	1						0.0
SB-P08	9/3	1915		X	003-SB-P08-14-BR	1	-	1						0.0
SB-P08	9/3	1950		X	003-SB-P08-15-BR	1	-	1					MS	0.0
(TR) SB-~~P08~~ 070	9/3	2250		X	003-SB-070-01-BR	1	-	1						0.0
SB-070	9/3	2255		X	003-SB-070-02-BR	1	-	1					"PRIORITY"	0.0
SB-070	9/3	2315		X	003-SB-070-03-BR	1	-	1					"PRIORITY"	0.0
SB-070	9/3	2330		X	003-SB-070-04-BR	1	-	1						0.0
SB-DP1	9/3	0000		X	003-SB-DP1-35-BR	1	-	1					DUP	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/4/97 0015	SECURE IN FIELD TRAILER		9/4/97 0830	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-044

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): [signature]	[signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vial w/HCl	VOCS 2oz Jar					REMARKS	FID
TB-037	9/4	1520		X	003-TB-037-01-BR	2	2							NA
SB-070	9/4	1650		X	003-SB-070-05-BR	1	-	1						0.0
SB-070	9/4	1730		X	003-SB-070-06-BR	1	-	1						0.0
SB-070	9/4	1750		X	003-SB-070-07-BR	1	-	1						0.0
SB-070	9/4	1815		X	003-SB-070-08-BR	1	-	1						0.0
SB-070	9/4	2010		X	003-SB-070-09-BR	1	-	1						0.0
SB-070	9/4	2050		X	003-SB-070-10-BR	1	-	1					MS	0.0
SB-070	9/4	2115		X	003-SB-070-11-BR	1	-	1						0.0
SB-070	9/4	2145		X	003-SB-070-12-BR	1	-	1						0.0
SB-070	9/4	2220		X	003-SB-070-13-BR	1	-	1						0.0
SB-070	9/4	2250		X	003-SB-070-14-BR	1	-	1						0.0
(TR) SB-070	9/4	2325		X	003-SB-070-15-BR	1	-	1						0.0
SB-DP1	9/4	0000		X	003-SB-DP1-036-BR	1	-	1					DUP	—
SB-DP1	9/4	0000		X	003-SB-DP1-037-BR	1	-	1					DUP	—

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/4/97 2345	SECURED IN FIELD TRAILER		9/5/97 0815	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C USTODY RECORD

BR-045

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE):

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOCs from VIALS w/ HCl						REMARKS
BB-002	9/4	2235		X	003-BB-002-01-BK	2	2						
BB-003	9/4	2240		X	003-BB-003-01-BK	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
	9/4/97 2315	SECURED IN FIELD TRAILER		9/5/97 15	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

BR-046

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature] [signature]

STATION NO.	DATE 97	TIME ~~97~~	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vials w/HCl	VOCS 2oz JAR					REMARKS	FID
TB-038	9/5	1515		X	003-TB-038-01-BR	2	2						TRIP BLANK	NA
SB-P10	9/5	1650		X	003-SB-P10-01-BR	1	–	1						0.0
SB-P10	9/5	1700		X	003-SB-P10-02-BR	1	–	1					"PRIORITY"	0.0
SB-P10	9/5	1715		X	003-SB-P10-03-BR	1	–	1					"PRIORITY"	0.0
SB-P10	9/5	1725		X	003-SB-P10-04-BR	1	–	1					MS	1.4
SB-P10	9/5	1740		X	003-SB-P10-05-BR	1	–	1						0.0
SB-P10	9/5	1800		X	003-SB-P10-06-BR	1	–	1						0.0
SB-P10	9/5	1820		X	003-SB-P10-07-BR	1	–	1						0.0
SB-P10	9/5	1840		X	003-SB-P10-08-BR	1	–	1						40.0
SB-P10	9/5	1920		X	003-SB-P10-09-BR	1	–	1						110.2
SB-P10	9/5	2225		X	003-SB-P10-10-BR	1	–	1						* 15.5
SB-DP1	9/5	0000		X	003-SB-DP1-38-BR	1	–	1					DUP	HOT

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/5/97 2355	SECURED IN FIELD TRAILER		9/6/97 1130	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

* HEA PACE IN ZIP LOCK 599 PPM

CHAIN (USTODY RECORD

BR-(7

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature] [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vials w/HCl	VOCS 2oz JAR					REMARKS	FID
TB-039	9/6	1340		X	003-TB-039-01-BR	2	2							NA
SB-P04	9/6	1730		X	003-SB-P04-01-BR	1	-	1						0.2
SB-P04	9/6	1745		X	003-SB-P04-02-BR	1	-	1					"Priority"	0.0
SB-P04	9/6	1755		X	003-SB-P04-03-BR	1	-	1					"Priority"	0.0
SB-P04	9/6	1805		X	003-SB-P04-04-BR	1	-	1						0.0
SB-P04	9/6	1830		X	003-SB-P04-05-BR	1	-	1						0.0
SB-P04	9/6	1845		X	003-SB-P04-06-BR	1	-	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/6/97 2359	SECURED IN FIELD TRAILER		9/7/97 0825	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

BR-048

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Noah

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	VOCs 2oz JAR					REMARKS
													FID
TB-040	9/7	1300		X	003-TB-040-01-BK	2	2						NA
SB-033	9/7	1940		X	003-SB-033-01-BK	1	—	1					0.0
SB-033	9/7	1950		X	003-SB-033-02-BK *	1	—	1					0.4
SB-033	9/7	2030		X	003-SB-033-03-BK *	1	—	1					0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Noah	9/7/97 ~~2000~~	2200 Hrs		9/7/97 2200	Mark Kay
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	

Order No. 70440 (0693)

CHAIN C 'JSTODY RECORD

BR-04

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rogers	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	VOCs 2oz Jar					REMARKS	FID
TB-041	9/8	1545		X	003-TB-041-01-BR	2	2							NA
SB-033	9/8	1640		X	003-SB-033-04-BR	1	-	1						0.0
SB-P11	9/8	2050		X	003-SB-P11-01-BR	1	-	1						0.0
SB-P11	9/8	2100		X	003-SB-P11-02-BR	1	-	1					"PRIORITY"	0.0
SB-P11	9/8	2110		X	003-SB-P11-03-BR	1	-	1					"PRIORITY"	0.0
SB-P11	9/8	2115		X	003-SB-P11-04-BR	1	-	1						0.0
SB-P11	9/8	2130		X	003-SB-P11-05-BR (TX)	1	-	1					MS	0.0
SB-P11	9/8	2210		X	003-SB-P11-06-BR	1	-	1						0.0
SB-DP1	9/8	0000		X	003-SB-DP1-39-BR	1	-	1					DUP	0.0
SB-DP1	9/8	0000		X	003-SB-DP1-40-BR	1	-	1					DUP	0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogers	9/8/97 1350	SECURE IN FIELD TRAILER		09/9/97 0915	
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE Analyzed by Field GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-050

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE):

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	VOCs 2oz Jar	REMARKS	FID
TB-042	9/09	1345		X	003-TB-042-01-BK	2	2			NA
SB-P11	9/09	1615		X	003-SB-P11-07-BR	1	-	1		0.0
SB-P11	9/09	1635		X	003-SB-P11-08-BR	1	-	1		0.0
SB-P11	9/09	1850		X	003-SB-P11-09-BR	1	-	1	MS	0.5
SB-P11	9/09	1915		X	003-SB-P11-10-BR	1	-	1		1.5
SB-P11	9/09	1945		X	003-SB-P11-11-BR	1	-	1		7.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Rosati	9/9/97 2045	SECURE IN FIELD TRAILER		09/10/97 0930	Mary Ky
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

BK-051

CHAIN C USTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs #40ml Vials w/HCl	VOCs 2oz Jar					REMARKS	FID
TB-043	9/15	1525		X	003-TB-043-01-BK	2	2						TRIP BLANK	NA
SB-029	9/15	1835		X	003-SB-029-01-BK	1	-	1						0.0
SB-029	9/15	1840		X	003-SB-029-02-BK	1	-	1						0.0
SB-029	9/15	1900		X	003-SB-029-03-BK	1	-	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	9/15/97 1115 PM	SECURED IN FIELD TRAILER		9/16/97 0900	Monty Ruy
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

BR-0 ?

CHAIN C USTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogers

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	VOCs 2oz JAR					REMARKS	FID
TB-044	9/16	1600		X	003-TB-044-01-BR	2	2							NA
SB-028	9/16	1700		X	003-SB-028-01-BR	1	-	1					(NALP)	11.4
SB-028	9/16	1720		X	003-SB-028-02-BR	1	-	1					"PRIORITY" (NALP)	9.0
SB-028	9/16	1730		X	003-SB-028-03-BR	1	-	1					"PRIORITY"	0.0
SB-028	9/16	1900		X	003-SB-028-04-BR	1	-	1						2.3
SB-028	9/16	1925		X	003-SB-028-05-BR	1	-	1						1.3
SB-028	9/16	1950		X	003-SB-028-06-BR	1	-	1					MS	0.8
SB-028	9/16	2240		X	003-SB-028-07-BR	1	-	1						0.0
SB-DP1	9/16	0000		X	003-SB-DP1-41-BR	1	-	1					DUP	<2.3

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogers	9/16/97 0945	SECURED IN FIELD TRAILER		9/17/97 0730	Mark Kuy
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-053

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Ryan

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	TCL VOCs 40ml VIALS w/HCl	TCL VOCs 2oz JAR					REMARKS	FID
TB-045	9/17	1415		X	003-TB-045-01-BR	2	2						TRIP BLANK	NA
SB-P05	9/17	1650		X	003-SB-P05-01-BR	1	-	1						0.0
SB-P05	9/17	1655		X	003-SB-P05-02-BR	1	-	1					"PRIORITY"	0.0
SB-P05	9/17	1705		X	003-SB-P05-03-BR	1	-	1					"PRIORITY"	0.3
SB-P05	9/17	1720		X	003-SB-P05-04-BR	1	-	1						2.3
SB-P05	9/17	1820		X	003-SB-P05-05-BR	1	-	1						3.1
SB-DP1	9/17	0000		X	003-SB-DP1-42-BR	1	-	1					DUP	-

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Ryan	9/17/97 2130	SECURED IN FIELD TRAILER		9/18/97 0720	Mark Kelly
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC.	

Order No. 70440 (0693)

BR-054

CHAIN C USTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojek

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml V.I.S w/HCl	VOCs 2oz JAR					REMARKS	FID
TB-046	9/18	1205		X	003-TB-046-01-BR	2	2							NA
SB-071	9/18	1220		X	003-SB-071-01-BR	1	—	1						0.0
SB-071	9/18	1230		X	003-SB-071-02-BR	1	—	1					"Priority"	0.7
SB-071	9/18	1245		X	003-SB-071-03-BR	1	—	1					"Priority"	0.0
SB-071	9/18	1255		X	003-SB-071-04-BR	1	—	1						0.0
SB-071	9/18	1325		X	003-SB-071-05-BR	1	-	1						4.3
SB-071	9/18	1350		X	003-SB-071-06-BR	1	-	1						1.2
SB-071	9/18	1420		X	003-SB-071-07-BR	1	—	1					MS	0.0
SB-071	9/18	1515		X	003-SB-071-08-BR	1	—	1						0.0
SB-071	9/18	1820		X	003-SB-071-09-BR	1	—	1						0.0
SB-071	9/18	1905		X	003-SB-071-10-BR	1	—	1						0.0
SB-DP1	9/18	0000		X	003-SB-DP1-43-BR	1	-	1					DUP	0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojek	9/18/97 2200	SECURED IN FIELD TRAILER		9/19/97 07:30	Mark Kuy
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR - 055

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vials w/HCl	VOC 2oz JAR					REMARKS	FID
TB-047	9/19	1520		X	003-TB-047-01-BR	2	2							NA
SB-046	9/19	1650		X	003-SB-046-01-BR	1	-	1						0.0
SB-046	9/19	1700		X	003-SB-046-02-BR	1	-	1					"PRIORITY"	0.0
SB-046	9/19	1710		X	003-SB-046-03-BR	1	-	1					"PRIORITY"	0.0
SB-046	9/19	1755		X	003-SB-046-04-BR	1	-	1						0.0
SB-DP1	9/19	0000		X	003-SB-DP1-44-BR	1	-	1					DUP	0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	9/19/97 2330	SECURED IN FIELD TRAILER		[illegible]	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

BR-0

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Boyd

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml VIALS W/ HCl	VOCs 2oz JAR					REMARKS	FID
TB-048	9/20	1315		X	003-TB-048-01-BR	2	2						TRIP BLANK	NA
SB-026	9/20	1400		X	003-SB-026-01-BR	1	-	1						7.1
SB-026	9/20	1410		X	003-SB-026-02-BR	1	-	1					"PRIORITY"	20.9
SB-026	9/20	1425		X	003-SB-026-03-BR	1	-	1					"PRIORITY"	760.0
SB-026	9/20	1450		X	003-SB-026-04-BR	1	-	1						1026.0
SB-026	9/20	1525		X	003-SB-026-05-BR	1	-	1						3860.0
SB-026	9/20	1600		X	003-SB-026-06-BR	1	-	1						3833.0
SB-026	9/20	1720		X	003-SB-026-07-BR	1	-	1						3833.0
SB-026	9/20	1800		X	003-SB-026-08-BR	1	-	1						3833.0
SB-026	9/20	2040		X	003-SB-026-09-BR	1	-	1						136.0
SB-026	9/20	2120		X	003-SB-026-10-BR	1	-	1						18.9
SB-DP1	9/20	0000		X	003-SB-DP1-45-BR	1	-	1					DUP	3833.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Boyd	9/21/97 0130	SECURED IN FIELD TRAILER		9/21/97 0700	Marty Kay
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-057

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogers [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vials w/HCl	VOCS 202 JAR					REMARKS	FID
TB-049	9/21	1310		X	003-TB-049-01-BR	2	2						TRIP BLANK	NA
SB-068	9/21	1440		X	003-~~S~~SB (TR)-068-01-BR	1	-	1						3.2
SB-068	9/21	1450		X	003-SB-068-02-BR	1	-	1					"PRIORITY"	2.8
SB-068	9/21	1500		X	003-SB-068-03-BR	1	-	1					"PRIORITY"	1.7
SB-068	9/21	1510		X	003-SB-068-04-BR	1	-	1					MS	0.8
SB-068	9/21	1525		X	003-SB-068-05-BR	1	-	1						1.9
SB-068	9/21	1545		X	003-SB-068-06-BR	1	-	1						2.2
SB-068	9/21	1610		X	003-SB-068-07-BR	1	-	1						3.8
SB-068	9/21	1635		X	003-SB-068-08-BR	1	-	1						0.6
SB-068	9/21	1900		X	003-SB-068-09-BR	1	-	1						2.0
SB-068	9/21	1940		X	003-SB-068-10-BR	1	-	1						0.0
SB-068	9/21	2020		X	003-SB-068-11-BR	1	-	1						0.0
SB-068	9/21	2050		X	003-SB-068-12-BR	1	-	1						0.0
SB-DP1	9/21	0000		X	003-SB-DP1-46-BR	1	-	1					DUP	
SB-DP1	9/21	0000		X	003-SB-DP1-47-BR	1	-	1					DUP	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogers	9/21/97 2330	SECURED ~~BY 1~~ (TR) @ FIELD TRAILER		9/22/97 [illegible]	Mark Ray
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C USTODY RECORD BR-058

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature] [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vial w/HCl	VOCS 2oz JAR					REMARKS	FID
TB-050	9/22	1650		X	003-TB-050-01-BR	2	2						TRIP BLANK	NA
SB-015	9/22	1710		X	003-SB-015-01-BR	1	–	1						2.4
SB-015	9/22	1720		X	003-SB-015-02-BR	1	–	1					"PRIORITY"	0.0
SB-015	9/22	1725		X	003-SB-015-03-BR	1	–	1					"PRIORITY"	0.0
SB-015	9/22	1740		X	003-SB-015-04-BR	1	–	1						0.2
SB-015	9/22	1805		X	003-SB-015-05-BR	1	–	1						5.8
SB-015	9/22	1850		X	003-SB-015-06-BR	1	–	1						0.8

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/22/97 1010	SECURED IN FIELD TRAILER		9/23/97 0145	[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

BR-059

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vials w/ HCl	VOCS 2oz JAR					REMARKS	FID
TB-051	9/23	1425		X	003-TB-051-01-BR	2	2						TRIP BLANK	NA
SB-047	9/23	1640		X	003-SB-047-01-BR	1	–	1						4.7
SB-047	9/23	1645		X	003-SB-047-02-BR	1	–	1					"PRIORITY"	2.6
SB-047	9/23	1655		X	003-SB-047-03-BR	1	–	1					"PRIORITY"	1.2
SB-047	9/23	1700		X	003-SB-047-04-BR	1	–	1						1.7
SB-047	9/23	1710		X	003-SB-047-05-BR	1	–	1					MS	1.0
SB-047	9/23	1720		X	003-SB-047-06-BR	1	–	1						3.9
~~—~~		~~1800~~	TR	X	~~003-SB-047-07-BR~~	~~1~~		~~1~~					TR NO RECOVERY	
SB-047	9/23	1800		X	003-SB-047-08-BR	1	–	1						2.3
SB-047	9/23	1955		X	003-SB-047-09-BR	1	–	1						1.2
SB-047	9/23	2015		X	003-SB-047-10-BR	1	–	1						5.2
SB-047	9/23	2040		X	003-SB-047-11-BR	1	–	1						1.8
SB-047	9/23	2120		X	003-SB-047-12-BR	1	–	1						1.3
SB-DP1	9/23	0000		X	003-SB ~~047~~ TR DP1-48-BR	1	–	1					DUP	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/23/97 2355	SECURE IN FIELD TRAILER			[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

CHAIN C USTODY RECORD

BR-060

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Boyd

STATION NO.	DATE '97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml VIALS w/HCl	VOCs 2oz JAR					REMARKS	FID
TB-052	9/24	1450		X	003-TB-052-01-BR	2	2						TRIP BLANK	NA
SB-050	9/24	1815		X	003-SB-050-01-BR	1	-	1						1.3
SB-050	9/24	1825		X	003-SB-050-02-BR	1	-	1						0.0
SB-050	9/24	1835		X	003-SB-050-03-BR	1	-	1						0.0
SB-050	9/24	1850		X	003-SB-050-04-BR	1	-	1						0.0
SB-050	9/24	1900		X	003-SB-050-05-BR	1	-	1					MS	0.0
SB-050	9/24	1925		X	003-SB-050-06-BR	1	-	1						0.0
SB-050	9/24	1950		X	003-SB-050-07-BR	1	-	1						0.0
BB-004	9/24	2010		X	003-BB-004-01-BR	2	2						BATCH BLANK	NA
SW1-003	9/24	2015		X	003-SW1-003-01-BR	2	2						SOURCE BLANK	NA
SB-050	9/24	2020		X	003-SB-050-08-BR	1	-	1						0.0
SB-050	9/24	2215		X	003-SB-050-09-BR	1	-	1						0.0
SB-050	9/24	2305		X	003-SB-050-10-BR	1	-	1						0.0
SB-050	9/24	2340		X	003-SB-050-11-BR	1	-	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Boyd	9/24/97 0130	SECURED IN FIELD TRAILER			A. Cooper Jr.
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

BR-061

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): [signature]	[signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 2oz JAR						REMARKS FID
SB-DP1	9/24	0000		X	003-SB-DP1-49-BR	1	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/24/97 0130	SECURED IN FIELD TRAILER			[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY FIELD GC	

Order No. 70440 (0693)

BR-062

CHAIN C USTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature] [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOCS 40ml Vials w/ HCl	TCL VOCS 2oz JAR					REMARKS	FID
TB-053	9/25	1450		X	003-TB-053-01-BR	2	2						TRIPBLANK	NA
SB-039	9/25	1645		X	003-SB-039-01-BR	1	–	1						0.0
SB-039	9/25	1650		X	003-SB-039-02-BR	1	–	1						4.6
SB-039	9/25	1700		X	003-SB-039-03-BR	1	–	1						1.7
SB-039	9/25	1710		X	003-SB-039-04-BR	1	–	1					MS	1.0
SB-039	9/25	1735		X	003-SB-039-05-BR	1	–	1						1.0
SB-039	9/25	1800		X	003-SB-039-06-BR	1	–	1						1.0
SB-039	9/25	1820		X	003-SB-039-07-BR	1	–	1						0.0
SB-039	9/25	1845		X	003-SB-039-08-BR	1	–	1						0.0

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	9/25/97 2340	SECURED IN FIELD TRAILER			[signature]
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: TO BE ANALYZED BY GC.	

Order No. 70440 (0693)

APPENDIX A.5

CHAIN OF CUSTODY RECORDS - PHASE II FIXED BASE LABORATORIES

CHAIN OF CUSTODY RECORD

0040

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): [signature]	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml w/HCl	VOCS 202 JAR					REMARKS
MS-30D	10/23	0900		X	003-TB-048-01	2	2						
MS-30D	10/23	1055		X	003-SB-30D-01	1	-	1					DO MS/MSD
MS-30D	10/23	1110		X	003-SB-30D-02	1	-	1					
MS-30D	10/23	1115		X	003-SB-30D-03	1	-	1					
MS-30D	10/23	1740		X	003-SB-30D-04	1	-	1					
MS-30D	10/24	1008		X	003-SB-30D-05	1	-	1					
MS-30D	10/24	1028		X	003-SB-30D-06	1	-	1					
MS-30D	10/24	1333		X	003-SB-30D-07	1	-	1					
MS-30D	10/24	1352		X	003-SB-30D-08	1	-	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	10/24/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063259992 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

00402

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tony Nagel

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOCs 40 mL Vial w/HCl	VOCs 2oz JARS	SVOCs 1L GLASS AMBER	PCBs 1L GLASS AMBER	TOTAL METALS 1L PE w/HNO3	CYANIDE 500ml PE w/NaOH	REMARKS
TB-049	10/24	1430		X	003-TB-049-01	2	2						
MS-30D	10/24	1427		X	003-SB-30D-09	1	-	1					
MS-30D	10/24	1500		X	003-SB-30D-10	1	-	1					
SW-003	10/27	0930		X	003-SW-003-01	9	3	-	2	2	1	1	
BB-009	10/27	1245		X	003-BB-009-01	3	3						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Nagel	10/27/97 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 406325970 SHIPPED TO LAUCK'S FOR ANALYSIS	

Order No. 70440

CHAIN OF CUSTODY RECORD

00403

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tony Royal

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vial w/HCl	VOCs 202 JAR					REMARKS
TB-050	11/12/97	1410		X	003-TB-050-01	2	2						
	11/13/97	1822		X	003-SB-31D-01	1	-	1					
	11/13/97	1823		X	003-SB-31D-02	1	-	1					
		1950		X	003-SB-31D-03	1	-	1					
		2026		X	003-SB-31D-04	1	-	1					
		2117		X	003-SB-31D-05	1	-	1					
		2208		X	003-SB-31D-06	1	-	1					
		2241		X	003-SB-31D-07	1	-	1					
		2340		X	003-SB-31D-08	1	-	1					
		0		X	003-SB-31D-09	1	-	1					
				X	003-SB-31D-10	1	-	1					
				X	003-SB-31D-11	1	-	1					
				X	003-SB-DP2-01	1	-	1					
				X	003-SB-DP2-02	1	-	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
		FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB # SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0[illegible])

CHAIN O. JSTODY RECORD

0040

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rogers	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOCs 40ml VIAL W/HCl	VOCs 2oz JAR					REMARKS
TB-050	11/12	1410		X	003-TB-050-01	2	2						
SB-31D	11/13	1822		X	003-SB-31D-01	1	—	1					
SB-31D	11/13	1823		X	003-SB-31D-02	1	—	1					
SB-31D	11/13	1839		X	003-SB-31D-03	1	—	1					
SB-31D	11/13	1950		X	003-SB-31D-04	1	—	1					
SB-31D	11/13	2026		X	003-SB-31D-05	1	—	1					
SB-31D	11/13	2117		X	003-SB-31D-06	1	—	1					
SB-31D	11/13	2208		X	003-SB-31D-07	1	—	1					
SB-31D	11/13	2241		X	003-SB-31D-08	1	—	1					
SB-31D	11/13	2340		X	003-SB-31D-09	1	—	1					
SB-31D	11/14	0111		X	003-SB-31D-10	1	—	1					
SB-31D	11/14	0202		X	003-SB-31D-11	1	—	1					
DP2-01	11/13	0000		X	003-SB-DP2-01	1	—	1					
DP2-02	11/13	0000		X	003-SB-DP2-02	1	-	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogers	11/14/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 406325996 6 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

00405

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Hoyt

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml VIAL W/HCl	VOCs 2oz. JAR					REMARKS
TB-051	11/14	1640		X	003-TB-051-01	2	2						
SB-31D	11/14	1909		X	003-SB-31D-12	1	–	1					
SB-31D	11/14	1934		X	003-SB-31D-13	1	–	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Hoyt	11/17/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 406325995 5 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (P

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Hojahn

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOCs 40ml VIAL w/HCl	VOCs 2oz JAR					REMARKS
TB-052	11/18	1430		X	003-TB-052-01	2	2						
SB-33D	11/18	1921		X	003-SB-33D-01	1	-	1					
SB-33D	11/18	1934		X	003-SB-33D-02	1	-	1					
SB-33D	11/18	0944		X	003-SB-33D-03	1	-	1					
SB-33D	11/18	2119		X	003-SB-33D-04	1	-	1					
SB-33D	11/18	2208		X	003-SB-33D-05	1	-	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Hojahn	11/19/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 406325 9863 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

0046

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojcho

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml VIAL W/HCl	VOCs 202 JAR					REMARKS
TB-053	11/19	1500		X	003-TB-053-01	2	2						
SB-33D	11/19	1612		X	003-SB-33D-06	1	-	1					
SB-33D	11/19	1654		X	003-SB-33D-07	1	-	1					
SB-33D	11/19	1656		X	003-SB-33D-08	1	-	1					Do ms/msd
SB-33D	11/19	1742		X	003-SB-33D-09	1	-	1					
SB-33D	11/19	1829		X	003-SB-33D-10	1	-	1					
SB-33D	11/19	2021		X	003-SB-33D-11	1	-	1					
SB-33D	11/19	2059		X	003-SB-33D-12	1	-	1					
DP2-03	11/19	0000		X	003-SB-DP2-03	1	-	1					
BB-010	11/20	1430		X	003-BB-010-01	3	3						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojcho	11/20/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 406325987 4 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

00408

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tuy Ngak

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40 ml Vial w/HCl	VOCs 202 JAR					REMARKS
TB-054	12/2	2030		X	003-TB-054-01	2	2						
SB-28D	12/3	2415		X	003-SB-28D-01	1	-	1					
SB-28D	12/3	2438		X	003-SB-28D-03	1	-	1					
SB-28D	12/3	2447		X	003-SB-28D-04	1	-	1					
SB-28D	12/3	0136		X	003-SB-28D-05	1	-	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tuy Ngak	12/3/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 406325900 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440

CHAIN OF CUSTODY RECORD

0040

PROJECT NO.:	SITE NAME:	NO. OF CON-TAINERS	REMARKS
SAMPLERS (SIGNATURE):			

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION
	12/3	1455		X	003-TB-055-01
					003-SB-28D-06
					003-SB-28D-07
					003-SB-28D-08
					003-SB-28D-09
					003-SB-28D-10
					003-SB-28D-11

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	

Order No. 70440 (0693)

00410

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojah

STATION NO.	DATE 97	TIME ~~97~~ (TM)	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vials w/HCl	VOCS 2oz JAR					REMARKS
TB-055	12/3	1455		X	003-TB-055-01	2	2						
SB-28D	12/3	1605		X	003-SB-28D-06	1	–	1					
SB-28D	12/3	1644		X	003-SB-28D-07	1	–	1					
SB-28D	12/3	1729		X	003-SB-28D-08	1	–	1					
SB-28D	12/3	1821		X	003-SB-28D-09	1	–	1					
SB-28D	12/3	2114		X	003-SB-28D-10	1	–	1					
SB-28D	12/3	2141		X	003-SB-28D-11	1	–	1					
SB-DP2	12/3	0000		X	003-SB-DP2-04	1	–	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rojah	12/4/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063259911 Terry Rojah SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440

CHAIN OF CUSTODY RECORD

0041.

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Hoskin

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	VOCs 2oz JAR					REMARKS
TB-056	12/05	1515		X	003-TB-056-01	2	2	—					TRIP BLANK
SB-29D	12/05	1844		X	003-SB-29D-01	1	—	1					
SB-29D	12/05	2240		X	003-SB-29D-02	1	—	1					
SB-29D	12/06	2405		X	003-SB-29D-03	1	—	1					
SB-29D	12/06	2419		X	003-SB-29D-04	1	—	1					
SB-29D	12/06	2441		X	003-SB-29D-05	1	—	1					
SB-29D	12/06	1248		X	003-SB-29D-06	1	—	1					DO MS/MSD
SB-29D	12/06	1309		X	003-SB-29D-07	1	—	1					
SB-29D	12/06	1335		X	003-SB-29D-08	1	—	1					
SB-29D	12/06	1336		X	003-SB-29D-09	1	—	1					
AB-007	12/06	1340		X	003-AB-007-01	2	2	—					AMBIENT BLANK
SB-29D	12/06	1549		X	003-SB-29D-10	1	—	1					
SB-29D	12/06	1551		X	003-SB-29D-11	1	—	1					
SB-29D	12/06	1724		X	003-SB-29D-12	1	—	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Hoskin	12/8/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063259922 SHIPPED to LANCKS FOR ANALYSIS	

Order No. 70440 (0693)

00412

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDEY

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 2oz JAR	VOCS 40ml VIAL W/HCl					REMARKS
SB-29D	12/06	1759		x	003-SB-29D-13	1	1	–					
SB-29D	12/06	1800		x	003-SB-29D-14	1	1	–					
SW-004	12/06	1825		x	003-SW-004-01	2	–	2					SOURCE BLANK
DP2-05	12/06	0000		x	003-SB-DP2-05	1	–	1					ANALIZED BY LAB PRIOR to CONVERSATION ON 12/12

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	12/9/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 4063259922 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440

CHAIN OF CUSTODY RECORD

00415

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE):	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	VOCs 2oz JAR					REMARKS
TB-057	12/08	1540		X	003-TB-057-01	2	2	-					TRIP BLANK
SB-32D	12/08	1731		X	003-SB-32D-01	1	-	1					
SB-32D	12/08	1758		X	003-SB-32D-02	1	-	1					
SB-32D	12/08	1815		X	003-SB-32D-03	1	-	1					
SB-32D	12/08	1830		X	003-SB-32D-04	1	-	1					
SB-32D	12/08	1902		X	003-SB-32D-05	1	-	1					DO MS/MSD
SB-32D	12/08	1917		X	003-SB-32D-06	1	-	1					
SB-32D	12/08	2043 (E)		X	003-SB-32D-07	1	-	1					
SB-32D	12/08	2151		X	003-SB-32D-08	1	-	1					
SB-32D	12/08	2152		X	003-SB-32D-09	1	-	1					
SB-32D	12/08	2227		X	003-SB-32D-10	1	-	1					
SB-32D	12/08	2252		X	003-SB-32D-11	1	-	1					
SB-32D	12/08	2316		X	003-SB-32D-12	1	-	1					
SB-32D	12/08	2344		X	003-SB-32D-13	1	-	1					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
	12/9/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 406325944 SHIPPED TO LANCES FOR ANALYSIS	

Order No. 70440 (0693)

00414

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIOLEY

SAMPLERS (SIGNATURE): Terry Rozak

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 2oz Jar	VOCs 40ml Vials w/HCl					REMARKS
DP2-06	12/08	0000		X	003-SB-DP2-06	1	1	-					
DP2-07	12/08	0000		X	003-SB-DP2-07	1	1	-					
DP2-08	12/08	0000		X	003-SB-DP2-08	1	1	-					
BB-011	12/09	2430		X	003-BB-011-01	2	-	2					Batch Blank

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozak	12/9/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 406325944 SHIPPED to LANCKS FOR ANALYSIS	

Order No. 70440

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): T Mopaka

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vials w/HCl	PAHs 1L Amber Glass	TSS & PH 1L PE	COD 1L PE w/H2SO4			REMARKS
IDW 003	12/22	1600		X	003-ID-003-01	7	3	2	1	1			

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
T Mopaka	12/22/97 1900	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 801460482613 SHIPPED to LANCKS FOR ANALYSIS	

Order No. 70440 (0693)

00416

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rozak

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vial w/HCl	PAHs 1L Glass Amber	TSS & pH 1L PE	COD 1L PE w/H2SO4			REMARKS
IDW 004	1/13	2050		X	003-ID-004-01	7	3	2	1	1			QUICK TURN AROUND

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozak	1/14/98 1530	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 80146048258 7 SHIPPED to LAUCKS for ANALYSIS	

Order No. 70440 (

CHAIN OF CUSTODY RECORD

0041

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCS 40ml Vial w/HCl	PAHS 1L Glass Amber	TSS & PH 1L PE	COD 1L PE w/H2SO4			REMARKS
ID-005	1/22	0500		X	003-ID-005-01	7	3	2	1	1			24 Hr Turn Around

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	01/22/98 9:33				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: HAND DELIVERED to PACE BY JIM LAFFEY	
		[signature] / PACE	1/23/98 0933	Attn. MICHELLE RUSZAT	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

EPA # 105261

00418

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Jonathan Tuffy

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOCs 40ml Vial w/HCl	PAHs 1L Glass Amber	TSS & PH 1L PE	COD 1L PE w/H2SO4			REMARKS
ID 006	1/25	1700		X	003-ID-006-01 4184186	7	3	2	1	1			24Hr TURN AROUND TANK #1
ID 007	1/25	1730		X	003-ID-807-01 4184996	7	3	2	1	1			" " " TANK #2

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE): Jonathan Tuffy	DATE / TIME: 1/26/98 9:30	RECEIVED FOR LABORATORY BY (SIGNATURE): CHAIN/PACE	DATE / TIME: 1/27/98 0930	REMARKS: HAND delivered to PACE ANALYTICAL	

Order No. 70440

0041

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tony Rojek

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES 40ml Vial w/HCl	TCL SEMIVOLATILES 1L Glass Amber	TCL PCB 1L Glass Amber	CYANIDE 500ml PE w/NaOH	HARDNESS 1L PE w/HNO3	TOTAL METAL 1L PE w/HNO3	ALK, TSS Sulfate & Nitrate 1L PE	Chloride, Bromide & PHOS. 500ml PE	Dissolved Metals Field Filtered REMARKS	Dissolved Metals 1L PE w/HNO3
TB				X	003-TB- -01	TR X2	2						-			
				X			3	2	2	1	1	1	1	1	-	
				X			-	-	-	-	-	-	-	-	1	

VOID

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	

Order No. 70440 (0693)

00420

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Chloride Bromide *PHOS. DIS.	ALK, TSS, Sulfate Nitrate & Nitrite					REMARKS
MS 285	2/11	1400		x	003-MS-285-01	2	*1	**1					* FIELD FILTERED 48 Hrs
MS 28I	2/11	1645		x	003-MS-28I-01	2	*1	**1					* " " 48 Hrs

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	2/11/98 2000	FED. EX.			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 801460482565 SHIPPED TO LAUCKS	

Order No. 70440

CHAIN OF CUSTODY RECORD

0042

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rojahn	

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES 40ml Vial w/HCl	TCL SVOC 1L GLASS AMBER	PCBS 1L Glass Amber	CYANIDE 500ml PE w/NaOH	HARDNESS 1L PE w/HNO3	TOTAL METALS 1L PE w/HNO3	DIS. METALS 1L PE w/HNO3	REMARKS
TB-058	2/11	1130		X	003-TB-058-01	2	2							
MS-285	2/11	1400		X	003-MS-285-01	10	3	2	2	1	1	1	-	
MS-285	2/11	1400		X	003-MS-285-F1	1	-	-	-	-	-	-	1	
MS-28I	2/11	1645		X	003-MS-28I-01	10	3	2	2	1	1	1	-	
MS-28I	2/11	1645		X	003-MS-28I-F1	1	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry R. Rojahn	2/12/98 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 80146048255 4 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

00422

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	Dissolved Methane 40ml Vials						REMARKS
MS-285	2/11	1400		X	003-MS-285-01	2	2						
MS-28I	2/11	1645		x	003-MS-28I-01	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	2/12/98 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 80146048254 3 ATTN: CLARK SHARLOCK SHIPPED to MICROSEEPS FOR ANALYSIS	

Order No. 70440 (

CHAIN OF CUSTODY RECORD

0042

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Nyquist

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES 40ml Vials w/HCl	TCL SVOCs 1L Glass Amber	TCL PCB 1L Glass Amber	CYANIDE 500ml PE w/NaOH	HARDNESS 1L PE w/HNO3	TOTAL METALS 1L PE w/HNO3	Dis. PHOSPHATE 500ml (Filtered & Bromide	ALK. TSS, Sulfate Nitrate, Nitrite 1L PE	Dis. METALS 1L PE w/HNO3 (Filtered)	REMARKS
TB-059	2/16	0800		X	003-TB-059-01	2	2									
MS-29D	2/16	1030		X	003-MS-29D-01	12	3	2	2	1	1	1	1	1	—	
MS-29D	2/16	1030		X	003-MS-29D-F1	1	—	—	—	—	—	—	—	—	1	
MS-29I	2/16	1355		X	003-MS-29I-01	12	3	2	2	1	1	1	1	1	—	
MS-29I	2/16	1355		X	003-MS-29I-F1	1	—	—	—	—	—	—	—	—	1	
MS 29S	2/16	1640		X	003-MS-29S-F1	1	—	—	—	—	—	—	—	—	1	
MS 29S	2/16	1640		X	003-MS-29S-01	12	3	2	2	1	1	1	1	1	—	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Nyquist	2/16/98 2000	FED. EX.			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 80146048252 1 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

00424

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rozahn

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Dis. Methane 40ml VIALS						REMARKS
MS-29D	2/16	1030		X	003-MS-29D-01	2	2						
MS 29I	2/16	1355		X	003-MS-29I-01	2	2						
MS-29S	2/16	1640		X	003-MS-29S-01	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozahn	2/16/98 2000	FED. EX			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 80146048253 2 Attn. Clark Sharlock SHIPPED to MICROSEEPS	

Order No. 70440

CHAIN OF CUSTODY RECORD

00425

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rogahn	

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL Volatiles 40ml Vial w/HCl	TCL SVOCs 1L Glass Amber	PCBs 1L Glass Amber	CYANIDE 500ml w/NaOH	HARDNESS 1L PE w/HNO3	Total Metals 1L PE w/HNO3	ALK., TSS Sulfate Nitrate & Nitrite 1L PE	DIS. PHOSPHATE Chloride & Bromide 500ml PE Filtered	DIS. METALS 1L PE w/HNO3 Filtered	REMARKS
TB-060	2/17	0900		X	003-TB-060-01	2	2									
MS-28D	2/17	1140		X	003-MS-28D-01	12	3	2	2	1	1	1	1	1		
MS-28D	2/17	1140		X	003-MS-28D-F1	1	–	–	–	–	–	–	–	–	1	
MS-31S	2/17	1510		X	003-MS-31S-01	12	3	2	2	1	1	1	1	1		
MS-31S	2/17	1510		X	003-MS-31S-F1	1	–	–	–	–	–	–	–	–	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogahn	2/17/98 1800	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB # 801460482500 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

00426

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tony Rozek

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	DIS. METHANE 40ml Vial						REMARKS
MS-28D	2/17	1140		X	003-MS-28D-01	2	2						
MS-315	2/17	1510		X	003-MS-315-01	2	2						
MS-31I	2/18	1020		X	003-MS-31I-01	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Rozek	2/18/98 1500				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 80146048251O SHIPPED to MICROSEEPS FOR ANALYSIS	

Order No. 70440 (

CHAIN Or CUSTODY RECORD

0042.

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Terry Rofahn	

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILE 40ml Vial W/HCl	TCL SVOCs 1L Glass Amber	TCL PCBs 1L Glass Amber	CYANIDE 500ml PE W/NaOH	HARDNESS 1L PE W/HNO3	Total METALS 1L PE W/HNO3	Alk, TSS, Sulfate Nitrate & Nitrite 1L PE	Dis. Phosphate Chloride, & Bromide 500ml PE (Filtered)	Dis. Metals 1L PE W/HNO3 Filtered	REMARKS
TB-061	2/18	0800		X	003-TB-061-01	2	2									
MS-31I	2/18	1020		X	003-TB MS-31I-01	12	3	2	2	1	1	1	1	1		
MS-31I	2/18	1020		X	003-MS-31I-F1	1	–	–	–	–	–	–	–	–	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rofahn	2/18/98 1500	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 801460482495 SHIPPED to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

00428

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tony Rojek

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	VOCs 40ml Vials w/HCl	PAHs 1L Glass Amber	TSS & pH 1L PE	COD 1L PE w/H2SO4			REMARKS
ID 008	2/23	1600		X	003-ID-008-01	7	3	2	1	1			24Hr turnaround

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Rojek	2/23/98 1610	D.T. Zl (PACE)			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	
				PICK UP BY PACE Analytical	

Order No. 70440

CHAIN OF CUSTODY RECORD

0042

PROJECT NO.:	SITE NAME:
69666	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Kozak

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES 40ml VIALS W/HCl	TCL SVOCS 1L GLASS AMBER	TCL PCBS 1L GLASS AMBER	CYANIDE 500ml PE w/NaOH	HARDNESS 1L PE w/HNO3	TOTAL METALS 1L PE w/HNO3	ALK, TSS, SULFATE NITRATE ENHANCE 1L PE	DIS. METALS 1L PE w/HNO3 FIELD FILTERED	REMARKS Chloride Bromide Ephosphate Dissolved 500ml PE FIELD FILTERED	
TB-062	2/24	0800		X	003-TB-062-01	2	2									
MS-305	2/24	1105		X	003-MS-305-01	12	3	2	2	1	1	1	1	-	1	
MS-305	2/24	1105		X	003-MS-305-F1	1	-	-	-	-	-	-	-	1	-	
MS-30I	2/24	1500		X	003-MS-30I-01	14	3	2	2	2	1	2	1	-	1	DO INORGANIC MS/MSD
MS-30I	2/24	1500		X	003-MS-30I-F1	2	-	-	-	-	-	-	-	2	-	DO MS/MSD

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Kozak	2/24/98 1930	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 801460482484 SHIPPED TO LAUCKS LAB FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

00430

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): [signature]	

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Dis. Methane 40ml Vial						REMARKS
MS-30S	2/24	1105		X	003-MS-30S-01	2	2						
MS-30I	2/24	1500		X	003-MS-30I-01	2	2						
MS-33S	2/25	1025		X	003-MS-33S-01	2	2						
MS-33I	2/25	1400		X	003-MS-33I-01	2	2						
MS-DP2	2/25	0000		X	003-MS-DP2-01	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	2/29/98 1900	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB # 801460482462 SHIP TO MICROSEEPS FOR ANALYSIS	

Order No. 70440 (

CHAIN OF CUSTODY RECORD

0043.

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Tony Rozak

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES 40ml Vials w/HCl	TCL SVOCs 1L Glass Amber	TCL PCBs 1L Glass Amber	CYANIDE 500ml w/NaOH	HARDNESS 1L PE w/HNO3	TOTAL METALS 1L PE w/HNO3	ALK.; TSS, Sulfate Nitrate & Alkalinity 1L PE	Chloride, Bromide & Phosphate (D.S.) Field Filtered 500ml PE	DIS. METALS 1L PE w/HNO3	REMARKS
TB-063	2/25	0800		X	003-TB-063-01	2	2									
MS-335	2/25	1025		X	003-MS-335-01	12	3	2	2	1	1	1	1	1	—	
MS-335	2/25	1025		X	003-MS-335-F1	1	—	—	-	—	-	-	-	—	1	
MS-33I	2/25	1400		X	003-MS-33I-01	12	3	2	2	1	1	1	1	1	—	
MS-33I	2/25	1400		X	003-MS-33I-F1	1	—	—	-	—	-	-	—	—	1	
MS-DP2	2/25	0000		X	003-MS-DP2-01	12	3	2	2	1	1	1	1	1	—	
MS-DP2	2/25	0000		X	003-MS-DP2-F1	1	-	-	-	-	-	-	-	—	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Rozak	2/25/98 1900	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 801460482451 SHIP to LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

00432

PROJECT NO.: 6966	SITE NAME: NIROP FRIDLEY
SAMPLERS (SIGNATURE): Tony Rogahn	

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES 40ml VIALS W/HCl	TCL SVOCS 1L GLASS AMBER	TCL PCBS 1L GLASS AMBER	CYANIDE 500ml W/NaOH	HARDNESS 1L/PE W/HNO3	TOTAL METALS 1L PE W/HNO3	ALK., TSS, SULFATE NITRATE & NITRITE 1L PE	Chloride, Bromide, Phosphate (DIS) 500ml PE Field Filtered	DIS. METALS 1L PE W/HNO3 Field Filtered	REMARKS
TB 064	2/26	0800		x	003-TB-064-01	2	2									
MS-33D	2/26	1100		x	003-MS-33D-01	12	3	2	2	1	1	1	1	1	—	
MS-33D	2/26	1100		x	003-MS-33D-F1	1	-	-	-	-	-	-	-	-	1	
MS-31D	2/26	1530		x	003-MS-31D-01	12	3	2	2	1	1	1	1	1	—	
MS-31D	2/26	1530		x	003-MS-31D-F1	1	-	-	-	-	-	-	-	-	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Tony Rogahn	2/26/98 1900	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 801460482440 SHIPPED TO LAUCKS FOR ANALYSIS	

Order No. 70440 (

CHAIN OF CUSTODY RECORD

0046

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojahn

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	D.I.S METHANOL AUMI VIALS						REMARKS
MS-33D	2/26	1100		X	003-MS-33D-01	2	2						
MS-31D	2/26	1530		X	003-MS-31D-01	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojahn	2/26/98 1900	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: ABA 801460482430 SHIPPED to MICROSEEPS FOR Analysis	

Order No. 70440 (0693)

00434

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIULEY

SAMPLERS (SIGNATURE): Terry Lynch

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	DIS. METHANE 40ml VIAL						REMARKS
MS-325	2/27	1230		X	003-MS-325-01	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Lynch	2/27/98 1700	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 801460481890 SHIPPED to MICROSEEPS FOR ANALYSIS	

Order No. 70440

CHAIN OF CUSTODY RECORD

PROJECT NO.: 6966

SITE NAME: NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogal

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES 40ml Vials w/HCl	TCL SVOCS 1L Glass Amber	TCL PCBS 1L Glass Amber	CYANIDE 500ml PE w/NaOH	HARDNESS 1L PE w/HNO3	TOTAL METALS 1L PE w/HNO3	ALK., TSS, Sulfate, Nitrate & Nitrite 1L PE	Dis. Chloride Bromide & Phosphate 500ml PE Field Filtered	DIS. METALS 1L PE w/HNO3 Field Filtered	REMARKS
TB-065	2/27	0900		X	003-TB-065-01	2	2									
MS-32S	2/27	1230		X	003-MS-32S-01	12	3	2	2	1	1	1	1	1	–	
MS-32S	2/27	1230		X	003-MS-32S-F1	1	–	–	–	–	–	–	–	–	1	

MS-32S

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Terry Rogal	2/27/98 1700	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 801460481926 (FED EX. HOLD FOR SATURDAY PICKUP) SHIPPED to ~~LACK~~ LAUCKS FOR ANALYSIS	

Order No. 70440 (0693)

00436

CHAIN OF CUSTODY RECORD

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rojek

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES 40ml w/HCl	TCL SVOCs 1L Glass Amber	TCL PCBs 1L Glass Amber	Cyanide 500ml w/NaOH	Hardness 1L PE w/HNO3	Total Metals 1L PE w/HNO3	Alk, TSS, Sulfate & Nitrate 1L PE	Chloride, Bromide & Phosphate (Dis) 500ml Field Filtered PE	Dis. Metals 1L PE w/HNO3 Field Filtered	REMARKS
TB-066	3/2	0800		X	003-TB-066-01	2	2									
MS-32I	3/2	1050		X	003-MS-32I-01	12	3	2	2	1	1	1	1	1	—	
MS-32I	3/2	1050		X	003-MS-32I-F1	1	—	—	—	—	—	—	—	—	1	
MS-32D	3/2	1435		X	003-MS-32D-01	12	3	2	2	1	1	1	1	1	—	
MS-32D	3/2	1435		X	003-MS-32D-F1	1	—	—	—	—	—	—	—	—	1	
MS-DP2	3/2	0000		X	003-MS-DP2-02	12	3	2	2	1	1	1	1	1	—	
MS-DP2	3/2	0000		X	003-MS-DP2-F2	1	—	—	—	—	—	—	—	—	1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rojek	3/2/98 1700	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 801460481937 SHIPPED TO LANCKS FOR ANALYSIS	

Order No. 70440 (

CHAIN OF CUSTODY RECORD

00437

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rogahn

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Dis. Methane 40ml Vials							REMARKS
MS-32I	3/2	1050		X	003-MS-32I-01	2	2							
MS-32D	3/2	1435		X	003-MS-32D-01	2	2							
MS-DP2	3/2	0000		X	003-MS-DP2-02	2	2							
MS-30D	3/3	1130		X	003-MS-30D-01	2	2							

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rogahn	3/3/98 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 801460481948 SHIP TO MICROSEEPS FOR ANALYSIS	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

00438

PROJECT NO.:	SITE NAME:
6966	NIROP FRIDLEY

SAMPLERS (SIGNATURE): Terry Rozat

STATION NO.	DATE 98	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCL VOLATILES 40ml VIAL W/HCl	TCL SVOCS 1L GLASS AMBER	TCL PCBS 1L GLASS AMBER	CYANIDE 500ml PE W/NaOH	HARDNESS 1L PE W/HNO3	TOTAL METALS 1L PE W/HNO3	ALK, TSS, SULFATE NITRATE 1L PE	CHLORIDE, BROMIDE & PHOSPHATE (OR) 500ml PE FIELD FILTERED	DIS METALS 1L PE W/HNO3 FIELD FILTERED	REMARKS
TB-067	3/3	0800		X	003-TB-067-01	2	2									
MS-30D	3/3	1130		X	003-MS-30D-01	23	7	4	4	1	1	2	2	2	-	DO MS/MSD
MS-30D	3/3	1130		X	003-MS-30D-F1	2	-	-	-	-	-	-	-	-	2	DO MS/MSD

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Terry Rozat	3/3/98 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: AB# 80146648 1959 SHIP to LAUCKS FOR ANALYSIS	

Order No. 70440 (

APPENDIX A.6

FIELD TASK MODIFICATION REQUESTS

Brown & Root Environmental

TASK MODIFICATION REQUEST

South Div CLEAN CTO#0003	6966	001
Work Assignment Number	Project Number	TMR Number

To Work Plan / FSP Location NIROP Fridley Date 7/9/97

Description:

Use of 2"-ID PVC well points for temporary locations is not possible due to borehole collapse.

Reason for Change:

Need to collect a groundwater grab sample at each temporary well location

Recommended Disposition:

Tried to use a hardened-steel, factory-slotted drive point but insufficient water was collected. Decided to use an expendable-point well pipe. Provided sufficient water (but minimal) to collect the sample.

Field Operations Leader (Signature) Tony Rojahn Date 7-9-97

Disposition:

Project Manager Date

Distribution: Program Manager (PMO File)
Quality Assurance Officer (D. Yesso)
Project Manager (M. Sladic)
Field Operations Leader (T. Rojahn)

Others as required
M. Perry

Brown & Root Environmental

TASK MODIFICATION REQUEST

Work Assignment Number	Project Number	TMR Number
SouthDiv CLEAN CTO-0003	6966	002

To Work Plan / FSP Location NIROP Fridley Date 7/9/97

Description:
Use of "zip-lock" baggies instead of glass jars for UV fluorescent screening.

Reason for Change:
Glass jars do not allow manipulation of the soil sample under the UV light.

Recommended Disposition:
Use "zip-lock" baggies rather than glass soil jars for UV fluor. samples. Will not effect results of DNAPL determination.

Field Operations Leader (Signature) Tony Lojak Date 7-9-97

Disposition:

Project Manager Date

Distribution: Program Manager (PMO File)
Quality Assurance Officer (D. Vesso)
Project Manager (M. Sladic)
Field Operations Leader (T. Rajahn)

Others as required
M. Perry

Brown & Root Environmental

TASK MODIFICATION REQUEST

Work Assignment Number	Project Number	TMR Number
SOUTHDIV CLEAN CTO #0003	6966	003

To WORK PLAN / FSP Location NIROP FRIDLEY Date 7/14/97

Description:
SAME AS TMR 001

Reason for Change:
SAME AS TMP 001

Recommended Disposition:
THE USE OF HARDENED STEEL, FACTORY-SLOTTED DRIVE POINTS HAVE BEEN FOUND TO BE THE MOST SUCCESSFUL METHOD FOR OBTAINING GROUNDWATER. PROVIDED THE WELL IS SURGED (TO FORCE THE SLOTS OPEN) BRIEFLY PRIOR TO PUMPING THE TEMPORARY WELL. EXPENDABLE POINTS ALLOWED TO MUCH SEDIMENT TO TRAVEL UP THE WELL SCREEN.

Field Operations Leader (Signature) [signature] Date 7/14/97

Disposition:

Project Manager Date

Distribution: Program Manager (PMO FILE)
Quality Assurance Officer (D. YESSO)
Project Manager (M. SLADIC)
Field Operations Leader (T. LOJAHN)

Others as required
M. PEARY

Brown & Root Environmental

TASK MODIFICATION REQUEST

SOUTH DIV CLEAN CTO #0003	6966	004
Work Assignment Number	Project Number	TMR Number

To FSP / OU2 FIGURE 3-1 Location NIROP FRIDLEY Date 8/12/97

Description:
COLLECTION OF BACKGROUND SOIL SAMPLES AS SHOWN ON OU2 FIGURE 3-1.

Reason for Change:
THREE locations due to recent light industry construction were found to be in undesirable locations for background samples. BG-01 was located on a paved road inside a parking lot & BG-04 and BG-05 were in drainage swales for a newly constructed BLDG.

Recommended Disposition:
MOVED EACH LOCATION to the closest relatively undisturbed location (i.e. OLD FIELD). Scott Glass was at the site during this time and approved of the relocated sampling points.

Field Operations Leader (Signature) [signature] Date 8/12/97

Disposition:

Project Manager Date

Distribution: Program Manager (PMO FILE)
Quality Assurance Officer (D. YESSO)
Project Manager (M. Sladic)
Field Operations Leader (T. ROJAHN)

Others as required
M. PERRY

Brown & Root Environmental

TASK MODIFICATION REQUEST

SOUTH DIO CLEAN CTO#0003	6966	005
Work Assignment Number	Project Number	TMR Number

To FSP (FIGURE 2-1) Location NIROP FRIDLEY Date 8/18/97

Description:
RELOCATION OF SAMPLE POINTS FOR AOCs & SUPPLEMENTARY SAMPLE POINTS.

Reason for Change:
1) Utility CONFLICTS (e.g. Electric, water, sewer, etc.)
2) Near surface construction debri
3) SUBSURFACE REFUSAL DUE to subterranean concrete obstructions (tank bottoms, FOOTERS, grouted in drywells, etc.)

Recommended Disposition:
Relocate drilling locations to the NEAREST ACCESS POINTS that would facilitate sample retrieval and mitigate the risks of hitting utilities.

Field Operations Leader (Signature) [signature] Date 8/18/97

Disposition:

Project Manager Date

Distribution: Program Manager (PMO FILE)
Quality Assurance Officer (D. Yesso)
Project Manager (M. Sladic)
Field Operations Leader (T. Rojahn)

Others as required
M. PERRY

Brown & Root Environmental

TASK MODIFICATION REQUEST

South Div Clean	CTO #0003	6966	006
Work Assignment Number		Project Number	TMR Number

To FSP (Figure 2-1) Location NIROP Fridley Date 10-26-97

Description:

On Figure 2-1 of the FSP → change MW01 to MS-28, MW02 to MS-29 MW03 to MS-30 and so on. Also, carry over well cluster ID# change to Boring Logs; Sample Data Sheets; Sample Labels; Ext.

Reason for Change:

As directed by Scott Glass (South Div.) and agreed upon by Paul Estuesta (MPCA), K. Morrow (NAUSEA) and Tim Ruda (United Defense) to continue the identification sequence of existing NIROP Navy Wells (the last existing Navy well installed was MS-27).

Recommended Disposition: FOR WELL ID →

Label Monitoring Well MW01 cluster as MS-28, MW02 as MS-29, MW03 as MS-30 and so on. FOR SAMPLE ID → refer to Groundwater Sample 003-MW-01D-01 as 003-MS-28D-01; Also subsurface samples from MW01 Deep would be designated as 003-SB-28D-01 (1st sample from boring), 003-SB-28D-02 (2nd sample from boring) and so on.

Field Operations Leader (Signature) Terry Royal Date 10-26-97

Disposition:

Project Manager Date

Distribution: Program Manager (PMO ~~OPF~~ File)
Quality Assurance Officer (D. Yesso)
Project Manager (M. Sladic)
Field Operations Leader (T. Ruhan)

Others as required

Brown & Root Environmental

TASK MODIFICATION REQUEST

SOUTH DIV. CLEAN CTO# 0003 | 6966 | 007

Work Assignment Number | Project Number | TMR Number

To FSP (SECTION 7.4.1) Location NIROP FRIDLEY Date 10-26-97

Description:

FSP CALLS FOR well development NO SOONER THAN 24 hrs → STATE CODE IS NO SOONER THAN 48 HRS

Reason for Change:

TO ADHERE TO STATE CODE.

Recommended Disposition:

FOLLOW STATE CODE.

Field Operations Leader (Signature) Terry Rogers Date 10-26-97

Disposition:

Project Manager Date

Distribution: Program Manager (PMO FILE)
Quality Assurance Officer (D. YESSO)
Project Manager (M. SLADIC)
Field Operations Leader (T. ROJAHN)

Others as required

Brown & Root Environmental

TASK MODIFICATION REQUEST

South Div Clean CTO #003	6966	008
Work Assignment Number	Project Number	TMR Number

To FSP (Section 7.4) Location NIROP FRIDLEY Date 10-26-97

Description:
REFER to Attached TECHNICAL MEMORANDUM Authored by MR Andy KENDRICK to MR MARK Sladic on 10/17/97.

Reason for Change:
SAME

Recommended Disposition:
SAME

Field Operations Leader (Signature) [signature] Date 10-26-97

Disposition:

Project Manager Date

Distribution: Program Manager (PMO FILE)
Quality Assurance Officer (D. VESSO)
Project Manager (M. Sladic)
Field Operations Leader (T. [illegible]AHN)

Others as required

Technical Memorandum

DATE: October 17, 1997

TO: Mark Sladic

FROM: Andy Kendrick

CC: Mark Perry, Terry Rojahn, Bryn Howze

SUBJECT: Rotosonic Drilling, NIROP Fridley, MN

A pre-mobilization meeting was held at NIROP Fridley on October 16, 1997 to finalize the drilling locations for the three currently approved well clusters. Participants included the Rotosonic drilling contractor (Boart Longyear), the utility clearance contractor (Honce), The Minnesota Dept. of Health (MDH), United Defense, Navy, and Brown & Root Environmental.

All participants visited each of the three cluster locations and discussed technical and logistical issues as well as information required for the MDH Variance Requests. Based upon the discussions, Boart Longyear has proposed an alternate drilling technique to that currently presented in the Field Sampling Plan. This Technical Memorandum details the proposed alternate drilling technique so that the project team can assess the proposal.

The technique for advancing the Rotosonic well borings, as detailed in the FSP, is to telescope permanent surface casing at each significant confining layer. MDH defines a significant confining layer as 10 feet or more in thickness. Boart Longyear is capable of telescoping the surface casing three times (to account for two separate confining layers). The initial maximum diameter casing would be 8-inch, with subsequent casing diameters of 6-inch and 4-inch. The corresponding borehole diameter is 10-inch, 8-inch, and 6-inch, respectively. The concern with this technique is that each time a separate surface casing is required to be completed and cemented in place, the time and cost of the well increases dramatically. Each time a single additional surface casing is required, the project will generate approximately 1,000 gallons of water and significantly more drums of soil cuttings. All investigation derived waste must be characterized and disposed of off site. In addition, it will result in several additional days drilling time and additional well development time and water generation.

The proposed alternate technique is to use only the 4-inch core tube and the 6-inch over-ride casing for each well installation. The drilling contractor would maintain a slightly positive pressure head of potable water, or thin, 100% pure, bentonite slurry in the annular space between the 4-inch and 6-inch casing while drilling. This creates an upward gradient along the outside wall of the 6-inch casing whereby eliminating potential downward migration of contaminants during drilling. Upon well completion, the entire annular space is simultaneously grouted during casing removal. In addition to greatly reducing the time and cost of well installation, the well will be installed much faster which further eliminates to potential for cross contamination of the aquifer.

This technique is approved by the MDH and has been used throughout Minnesota on hazardous waste sites, including the Burlington Northern project immediately east of the NIROP facility. The representative of the MDH confirmed their approval of the technique and has used the technique routinely during hazardous waste site investigations in Minnesota.

The preconstruction/mobilization meeting is scheduled to take place at 13:00 hrs. on Wednesday, October 22, 1997 at the site. Drilling is scheduled to begin the following day on Thursday, October 23, 1997. Therefore it is requested that this proposed variance to the FSP be evaluated and resolved prior to that date.

Brown & Root Environmental

TASK MODIFICATION REQUEST

Work Assignment Number	Project Number	TMR Number
SOUTH DIV CLEAN CTO #0003	6966	009

To FSP (SECTION 7.4) Location NIROP FRIDLEY Date 10-26-97

Description:

THERE ARE (3) three wells PER cluster and EACH monitoring WELL protective APRON must stick up above grade by 2 inches and be 4 inches thick (@ the EDGES) by 4 feet SQUARE.

Reason for Change:

INCREASE the SIZE of the SIZE of the protective APRON to AVOID quick bumps (~~as~~ when subjected to 3 SEPARATE pads) and STRENGTHEN pad construction for anticipated HEAVY VEHICAL TRAFFIC.

Recommended Disposition:

POUR AN OVERSIZED industrial grade concrete APRON to ENCOMPASS all the monitoring wells within A GIVEN cluster SO AS to ENHANCE PAD STRENGTH and lessen the impact ON TRAFFIC FROM SEVERE road obstacles.

Field Operations Leader (Signature) Date 10-26-97

Disposition:

Project Manager Date

Distribution: Program Manager
Quality Assurance Officer
Project Manager
Field Operations Leader

Others as required