INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120400-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-GP06**

Sample Number: **HL0054**

Sample Name: **HR-87Q-GP06-SS-HL0054-REG**

Sampling Method: **DP**

Collection Date: 12-4-00

Collection Time: 1305

Start Depth: 0'

End Depth: 1'

Sample Team: L. O'Hare, D. Tindell

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID = 0ppm

Sketch Location:

12/4/00 ~~Seep~~ See map for HL0048

Logged BY / Date: DTindell 12/4/00

Reviewed BY / Date: 12-4-00

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120400-EMAX

Site: Range 29, Former Weapons Demonstration F

Location Code: HR-87Q-GP06

Sample Number: HL0055

Sample Name: HR-87Q-GP06-DS-HL0055-REG

Sampling Method: DP

Collection Date: 12-4-00

Collection Time: 1340

Start Depth: 10'

End Depth: 12'

Sample Team: L. O'Hare, D. Tindell

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID = 0ppm

Sketch Location:

See map for HL0048

Logged BY / Date: D Tindell / 12-14-00

Reviewed BY / Date: DeKaee 12-4-00

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120600-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-GP07**

Sample Number: **HL0056**

Sample Name: **HR-87Q-GP07-SS-HL0056-REG**

Sampling Method: ~~DP~~ HA

Collection Date: 12/6/00

Collection Time: 0920

Start Depth: 0'

End Depth: 1'

Sample Team: L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID=0.0

Sketch Location: See map for sample # HL0007

Logged BY / Date: L. O'Hare 12/6/00

Reviewed BY / Date: [signature] 12-6-00

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120600-EMAX

Site: Range 29, Former Weapons Demonstration F

Location Code: HR-87Q-GP07

Sample Number: HL0057

Sample Name: HR-87Q-GP07-DS-HL0057-REG

Sampling Method: DP

Collection Date: 12/6/00

Collection Time: 0935

Start Depth: 5'

End Depth: 6'

Sample Team: L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID = 0.0

Sketch Location: see map for sample # HL0007

Logged BY / Date: L. O'Hare 12/6/00

Reviewed BY / Date: D. K. Cee

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120500-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-GP08**

Sample Number: **HL0058**

Sample Name: **HR-87Q-GP08-SS-HL0058-REG**

Sampling Method: **DP**

Collection Date: 12/5/00

Collection Time: 1015

Start Depth: 0'

End Depth: 1'

Sample Team: L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID=0.0

Sketch Location: See map for Sample # HL0007

Logged BY / Date: L. O'Hare 12/5/00

Reviewed BY / Date: D.K. Lee 12-05-00

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120500-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-GP08**

Sample Number: **HL0059**

Sample Name: **HR-87Q-GP08-DS-HL0059-REG**

Sampling Method: **DP**

Collection Date: 12/5/00

Collection Time: 1030

Start Depth: 5'

End Depth: 6'

Sample Team: L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID=0.0

Sketch Location: See map for sample # ~~HL55~~ NB 12/7/00 HL0007

Logged BY / Date: L. O'Hare 12/5/00 *Reviewed BY / Date:* D.K. Allen 12-05-00

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120500-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-GP09**

Sample Number: **HL0060**

Sample Name: **HR-87Q-GP09-SS-HL0060-REG**

Sampling Method: ~~DP~~ HA

Collection Date: 12/5/00

Collection Time: 0835

Start Depth: 0'

End Depth: 1'

Sample Team: L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID=0.0

Sketch Location: See map for sample # HL0007

Logged BY / Date: L. O'Hare 12/5/00 *Reviewed BY / Date:* [illegible] 12-05-00

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120500-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-GP09**

Sample Number: **HL0061**

Sample Name: **HR-87Q-GP09-SS-HL0061-FD**

Sampling Method: ~~DP-MA~~

Collection Date: 12/5/00

Collection Time: 0835

Start Depth: 0'

End Depth: 1'

Sample Team: L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID=0.0

Sketch Location: See map for sample HL0007

Logged BY / Date: L O'Hare 12/5/00 *Reviewed BY / Date:* D.R. Cole 12-06-00

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120500-~~EMAX~~ SADL OKA

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-GP09**

Sample Number: **HL0062**

Sample Name: **HR-87Q-GP09-SS-HL0062-FS**

Sampling Method: ~~DP~~ HA

Collection Date: 12/5/00

Collection Time: 0835

Start Depth: 0'

End Depth: 1'

Sample Team: L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID=0.0

Sketch Location: See map for HL0007 sample #

Logged BY / Date: L. O'Hare 12/5/00

Reviewed BY / Date: D.K. Lee 12-05-00

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120500-EMAX

Site: Range 29, Former Weapons Demonstration F

Location Code: HR-87Q-GP09

Sample Number: HL0063

Sample Name: HR-87Q-GP09-DS-HL0063-REG

Sampling Method: DP

Collection Date: 12/5/00

Collection Time: 0915

Start Depth: 10'

End Depth: 12'

Sample Team: L. O'Hare

Analytical Suite	Containers Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID = 0.0

Sketch Location: See map for sample # HL0007

Logged BY / Date: L. O'Hare 12/5/00

Reviewed BY / Date: D.K. Allen 12.05.00

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120400-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-GP10**

Sample Number: **HL0064**

Sample Name: **HR-87Q-GP10-SS-HL0064-REG**

Sampling Method: **DP**

Collection Date: 12/4/00

Collection Time: 1600

Start Depth: 0

End Depth: 1

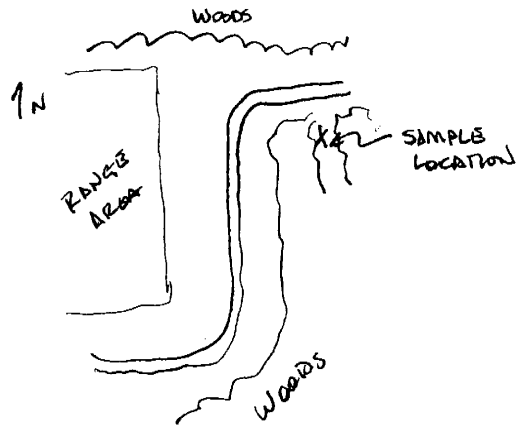
Sample Team: L. O'Hare, J. White

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID = 0

Sketch Location:



Logged BY / Date: L. O'Hare 12/4/00

Reviewed BY / Date: D.K. Allen 12-4-00

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-120400-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-GP10**

Sample Number: **HL0065**

Sample Name: **HR-87Q-GP10-DS-HL0065-REG**

Sampling Method: **DP**

Collection Date: 12/4/00

Collection Time: ~~1600~~ 12/4/00 1620

Start Depth: 4

End Depth: 6

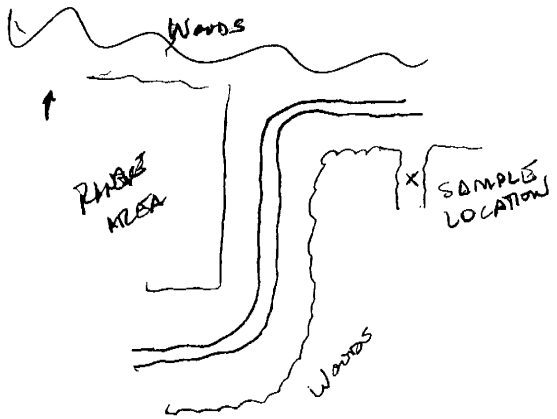
Sample Team: L. O'Hare, J. White

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM

Comments: PID = 0

Sketch Location:



Logged BY / Date: L. O'Hare 12/4/00

Reviewed BY / Date: 12-4-00

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011101-EMAX

Site: Range 29, Former Weapons Demonstration F

Location Code: HR-87Q-~~SW/SD02~~ DIKA DEPØ1

Sample Number: ~~HL1002~~ DIKA NL006670

Sample Name: HR-87Q-~~SW/SD02~~ DIKA ~~SD-HL1002~~-REG DEPØ1-DEP-HL0066-

Sampling Method: HA

Collection Date: 1/11/01

Collection Time: 1130

Start Depth: 0.0'

End Depth: ~~0.5'~~ 1

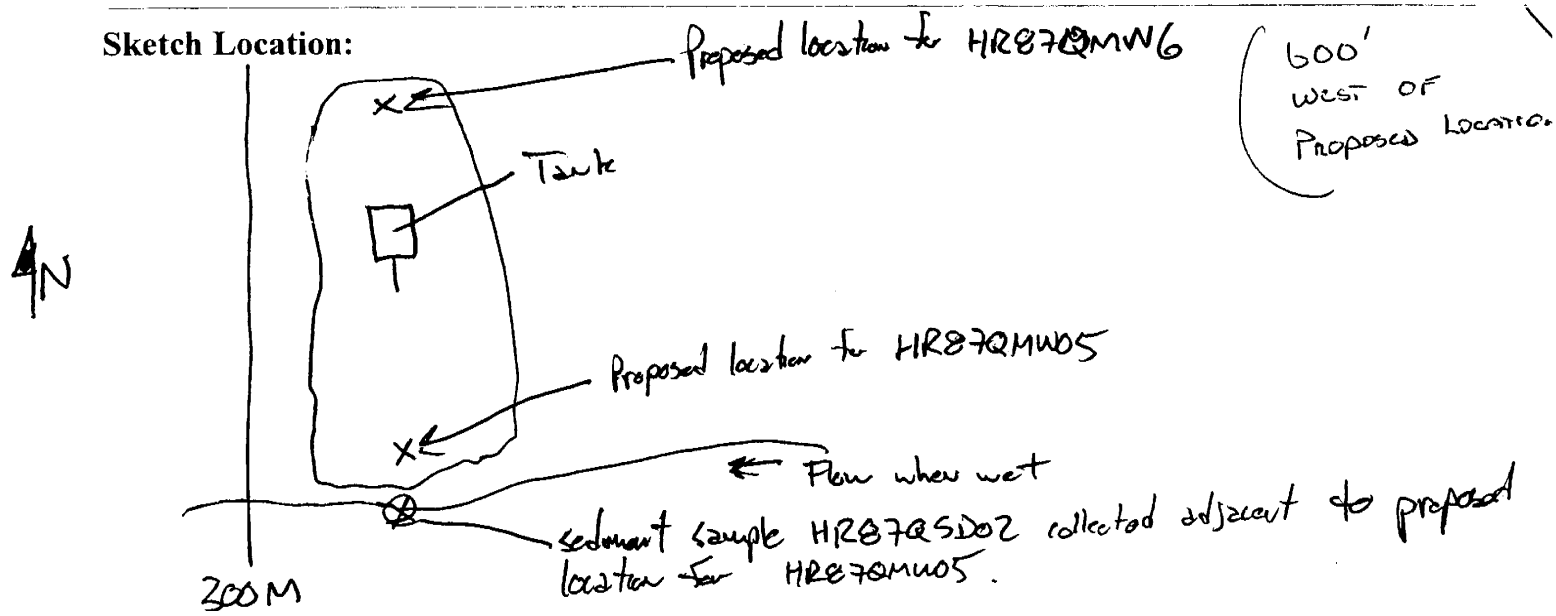
Sample Team: J. Williams, L. Yates

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
TOC	N	C	1	4	oz	CWM
GR. SIZE	N	D	1	8	oz	CWM

Comments: No surface water present NO surface water samples collected.

Sketch Location:



Logged BY / Date: J. W. 1/11/01

Reviewed BY / Date: D.K.A. 01-11-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011101-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-~~SW/SD03~~** DEP02

Collection Date: 1/11/01

Sample Number: **HL~~1003~~** 006471

Collection Time: 0945

Sample Name: **HR-87Q-~~SW/SD03-SD-HL1003~~-REG** DEP02-DEP-HL0067

Start Depth: 0.0'

Sampling Method: **HA**

End Depth: ~~0.5'~~ 1.0

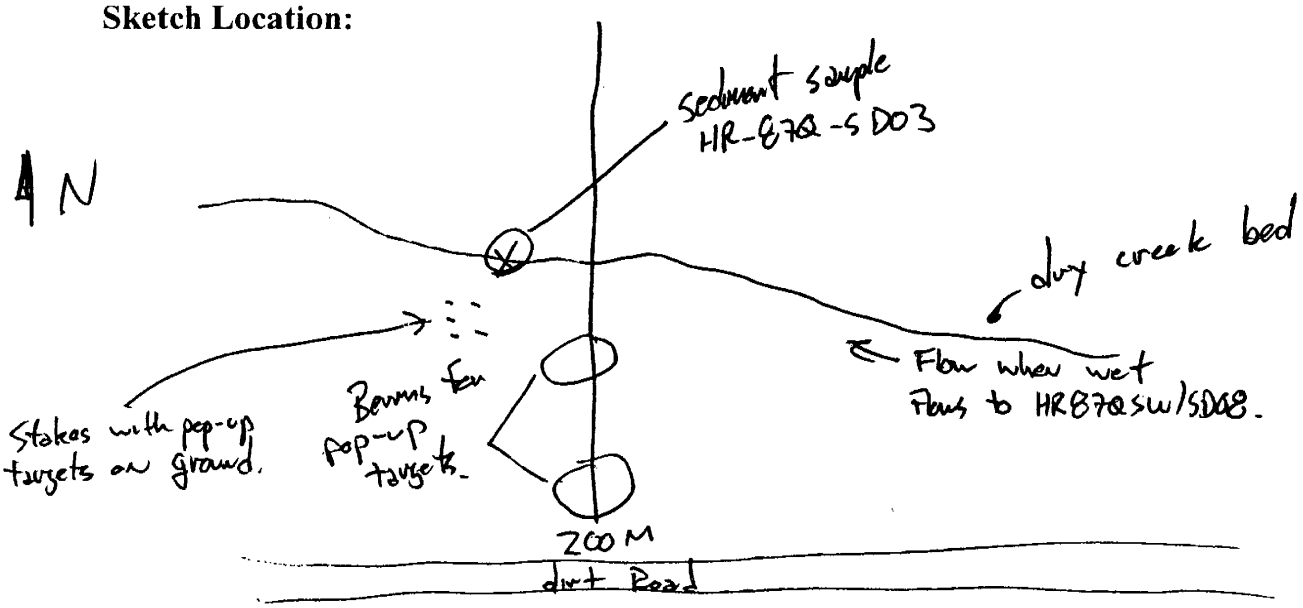
Sample Team: J. Williams, L. Yates

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
TOC	N	C	1	4	oz	CWM
GR. SIZE	N	D	1	8	oz	CWM

Comments: No surface water present, no surface water samples collected.

Sketch Location:



Logged BY / Date: J.W. 1/11/01

Reviewed BY / Date: D.R.K. [illegible]

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011101-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-~~SW/SD03~~** DEP02

Sample Number: **HL~~1003-MS~~** 0067-MS

Sample Name: **HR-87Q-~~SW/SD03-SD-HL1003-MS~~** DEP02-DEP-HL0067-MS

Sampling Method: **HA**

Collection Date: 1/11/01

Collection Time: 0945

Start Depth: 0.0'

End Depth: ~~0.5'~~ 1.0

Sample Team: J. Williams, L. Yates

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
TOC	N	C	1	4	oz	CWM
GR. SIZE	N	D	1	8	oz	CWM

Comments: See comments for sample HL1003

Sketch Location: See sketch for sample HL1003

Logged BY / Date: J.W. 1/11/01

Reviewed BY / Date: DRK

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011101-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-~~SW/SD03~~** DEP02

Sample Number: **HL~~1003-MSD~~** 0067-MSD

Sample Name: **HR-87Q-~~SW/SD03-SD-HL1003-MSD~~** DEP02-DEP-HL0067-MSD

Sampling Method: **HA**

Collection Date: 1/11/01

Collection Time: 0945

Start Depth: 0.0'

End Depth: ~~0.5'~~ 1.0

Sample Team: J. Williams, L. Yates

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
TOC	N	C	1	4	oz	CWM
GR. SIZE	N	D	1	8	oz	CWM

Comments: See comments for sample HL1003

Sketch Location: See sketch for sample HL1003

Logged BY / Date: J. W. 1/11/01

Reviewed BY / Date: [illegible]

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011101-EMAP

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-~~SW/SD08~~** DEP03

Sample Number: **HL~~1008~~** 005972

Sample Name: **HR-87Q-~~SW/SD08-SD-HL1008-REG~~** DEP03-DEP-HL0069-REG

Sampling Method: **HA**

Collection Date: 1/11/01

Collection Time: 0900

Start Depth: 0.0

End Depth: ~~0.5~~ 1.0

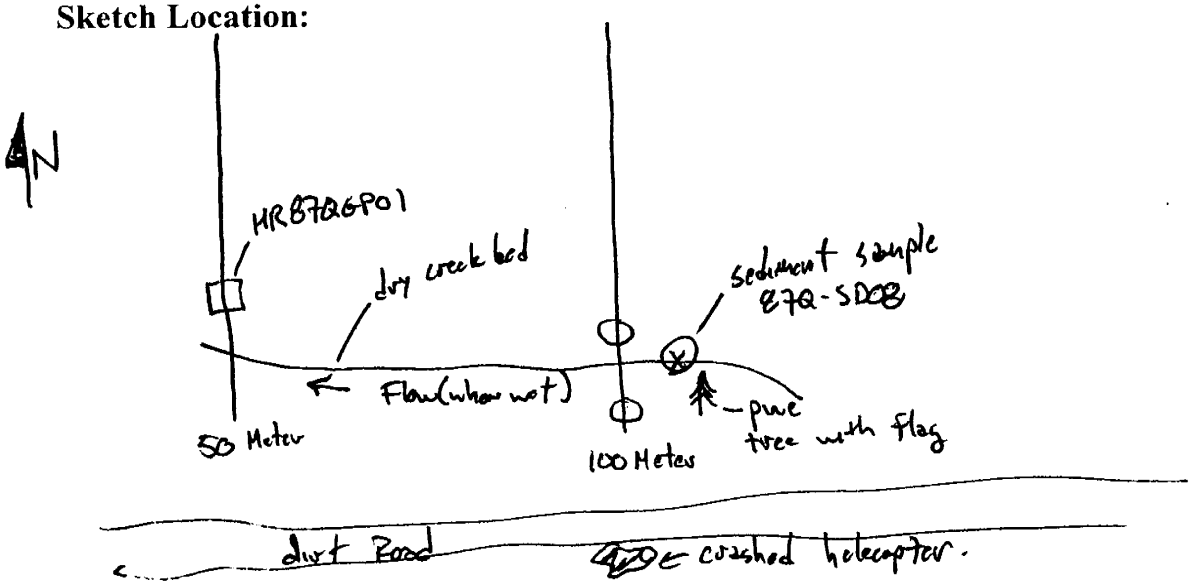
Sample Team: J. Williams, L. Yates

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
TOC	N	C	1	4	oz	CWM
GR. SIZE	N	D	1	8	oz	CWM

Comments: No surface water sample collected because no surface water was present. Sediment sample ~~Th~~ UT HR87QSD08 collected approximately 50 meters southeast of HR87QGP01.

Sketch Location:



Logged BY / Date: 1/11/01

Reviewed BY / Date:

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011101-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-~~SW/SD08~~** DEP03

Sample Number: **HL~~1009~~** 00373

Sample Name: **HR-87Q-~~SW/SD08-SD-HL1009-FD~~** DEP03-DEP-HL0070-FD

Sampling Method: **HA**

Collection Date: 1/11/01

Collection Time: 0900

Start Depth: 0.0'

End Depth: ~~0.5'~~ 1.0

Sample Team: J. Williams, L. Yates

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
TOC	N	C	1	4	oz	CWM
GR. SIZE	N	D	1	8	oz	CWM

Comments: Refer to comments for sample HL1008

Sketch Location: Refer to sketch for sample HL1008.

Logged BY / Date: [signature] 1/11/01

Reviewed BY / Date: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011101-SADL

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-~~SW/SD08~~** DEP Ø3

Sample Number: **HL~~1010~~** 00~~71~~74

Sample Name: **HR-87Q-~~SW/SD08-SD-HL1010-FS~~** DEP03-DEP-HL0071-FS

Sampling Method: **HA**

Collection Date: 1/11/01

Collection Time: 0900

Start Depth: 0.0'

End Depth: ~~0.5'~~ 01.0

Sample Team: J. Williams, L. Yates

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
TOC	N	C	1	4	oz	CWM

Comments: Refer to comments for sample # HL1008

Sketch Location: Refer to ~~comments~~ sketch for sample # HL1008

Logged BY / Date: [signature] 1/11/01

Reviewed BY / Date: [signature]

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan
Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011101-EMAP

Site: Range 29, Former Weapons Demonstration F
Location Code: HR-87Q-~~SW/SD04~~ DEP04
Sample Number: HL~~1004~~ 0075
Sample Name: HR-87Q-~~SW/SD04-SD-HL1004~~-REG DEP04-DEP-HL0075
Sampling Method: HA

Collection Date: 1/11/01
Collection Time: 1415
Start Depth: 0.0'
End Depth: ~~0.5'~~ 1.0

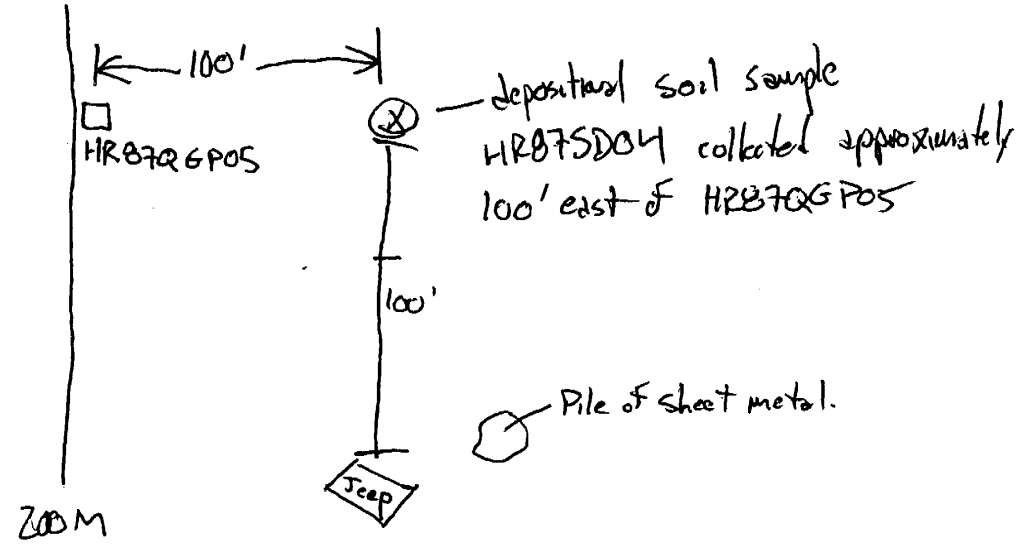
Sample Team: J. Williams, L. Yates

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
TOC	N	C	1	4	oz	CWM
GR. SIZE	N	D	1	8	oz	CWM

Comments: No surface water present, no surface water samples collected. Depositional soil sample collected.

Sketch Location:



Logged BY / Date: J.W. 1/11/01 *Reviewed BY / Date:* [illegible]

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011701-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-DEP05**

Sample Number: **HL0076**

Sample Name: **HR-87Q-DEP05-DEP-HL0076-REG**

Sampling Method: **HA**

Collection Date: 1/17/01

Collection Time: 1040

Start Depth: 0.0'

End Depth: 0.5'

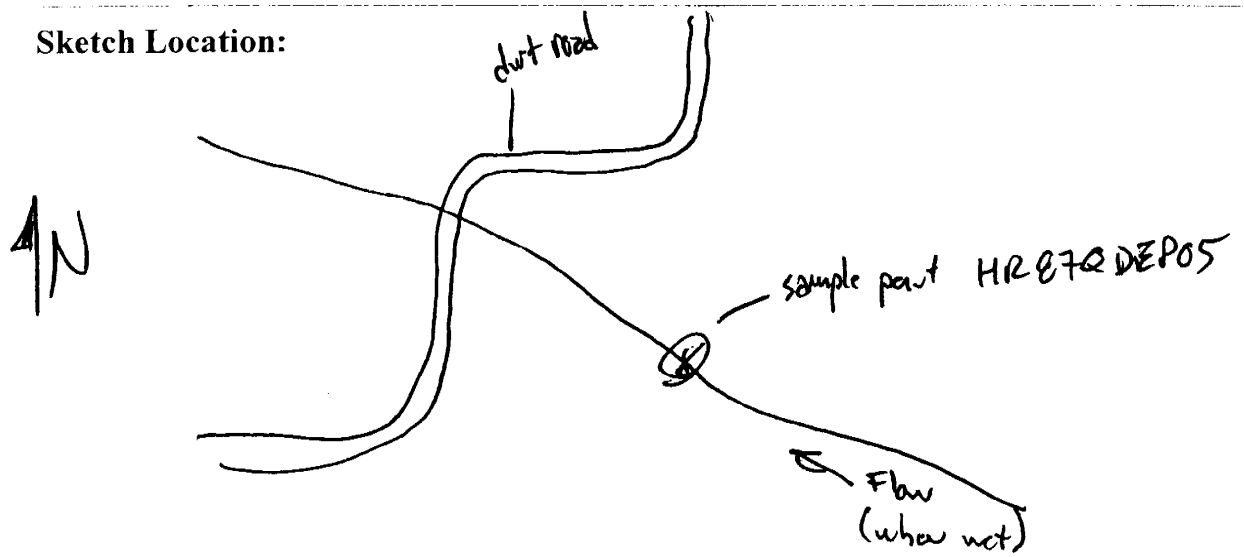
Sample Team: J. Williams, L. Yates

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
TOC	N	C	1	4	oz	CWM
GR. SIZE	N	D	1	8	oz	CWM

Comments: No surface water present No surface water collected. sample collected approximately 400' upstream of dirt road.

Sketch Location:



Logged BY / Date: J. Wi 1/17/01 *Reviewed BY / Date:* 1-17-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011701-EMAX

Site: Range 29, Former Weapons Demonstration F

Location Code: HR-87Q-DEP06

Sample Number: HL0077

Sample Name: HR-87Q-DEP06-DEP-HL0077-REG

Sampling Method: HA

Collection Date: 1/17/01

Collection Time: 1010

Start Depth: 0.0'

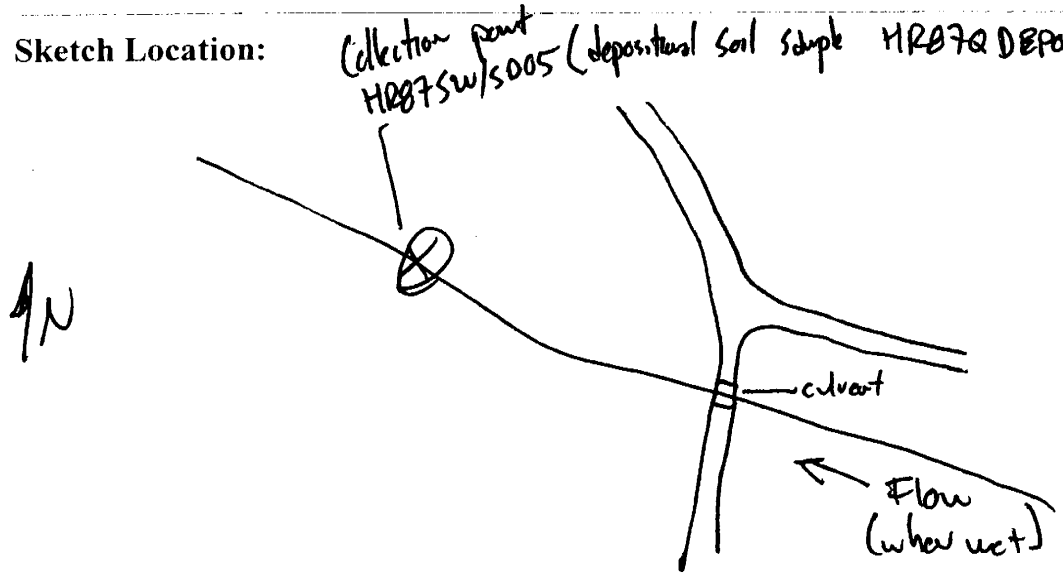
End Depth: 0-5'

Sample Team: J. Williams, L. Yates

Analytical Suite	Flt	Frtn	Containers Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
TOC	N	C	1	4	oz	CWM
GR. SIZE	N	D	1	8	oz	CWM

Comments: No surface water present, no surface water sample collected. Sample collected 400' downstream of culvert

Sketch Location:



Logged BY / Date: J.W. 1/17/01

Reviewed BY / Date: Dekc 1-17-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011701-EMAX

Site: Range 29, Former Weapons Demonstration F

Location Code: HR-87Q-DEP07

Sample Number: HL0078

Sample Name: HR-87Q-DEP07-DEP-HL0078-REG

Sampling Method: HA

Collection Date: 1/17/01

Collection Time: 0820

Start Depth: ~~J. Williams~~ 1/17/2001 0.0'

End Depth: 0.5'

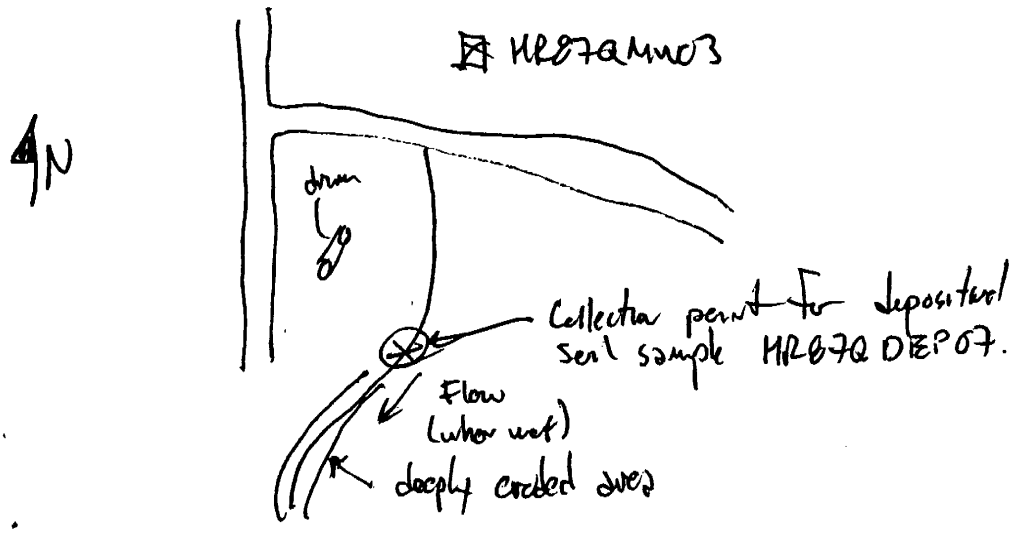
Sample Team: J. Williams, L. Yates

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
~~TOC~~	~~N~~	~~C~~	~~1~~	~~4~~	~~oz~~	~~CWM~~
~~GR. SIZE~~	~~N~~	~~D~~	~~1~~	~~8~~	~~oz~~	~~CWM~~

Comments: No surface water present, no surface water collected. Sample collected approximately 200' downstream of road.

Sketch Location:



Logged BY / Date: 1/17/01 *Reviewed BY / Date:* 1-17-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011701-EMAX

Site: Range 29, Former Weapons Demonstration F

Location Code: HR-87Q-SW/SD06

Sample Number: HL2006

Sample Name: HR-87Q-SW/SD06-SW-HL2006-REG

Sampling Method: GRAB

Collection Date: 1/17/01

Collection Time: 0930

Start Depth: Ø

End Depth: Ø

Sample Team: J. Williams, L. Yates

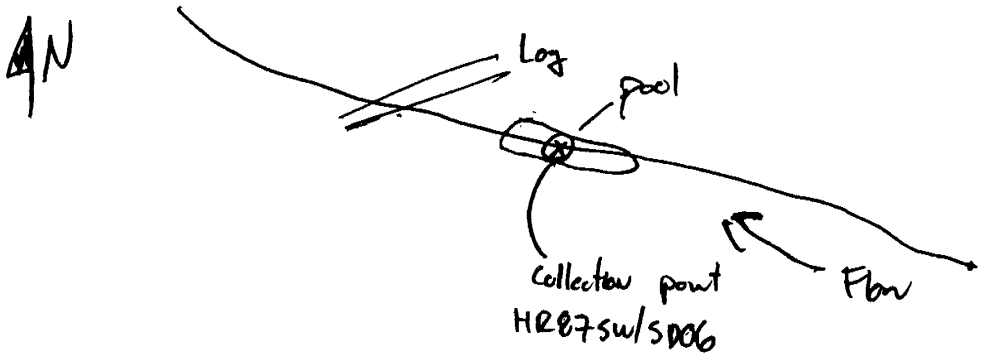
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

Surface Water Parameters:	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen ~~(mg/L)~~ mg/L	Temperature (C)
	280	5.96	0.394	0	1.42	11.8

Comments: Sample for metals preserved to a pH<2.

Sketch Location:



Logged BY / Date: J.W. 1/17/01

Reviewed BY / Date: D.E.K. 1-17-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-011701-EMAX

Site: Range 29, Former Weapons Demonstration F

Location Code: HR-87Q-SW/SD06

Sample Number: HL1006

Sample Name: HR-87Q-SW/SD06-SD-HL1006-REG

Sampling Method: HA

Collection Date: 1/17/01

Collection Time: 0930

Start Depth: 0.0'

End Depth: 0.5'

Sample Team: J. Williams, L. Yates

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-S	N	A	1	8	oz	CWM
NITROAROMATIC	N	A	1	8	oz	CWM
PERCHLORATE	N	B	1	4	oz	CWM
TOC	N	C	1	4	oz	CWM
GR. SIZE	N	D	1	8	oz	CWM

Comments: Surface water and sediment collected from the same location.

Sketch Location: See sketch for sample # HL2006

Logged BY / Date: [illegible] 1/17/01 *Reviewed BY / Date:* [illegible] 1-17-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number:

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-MW01**

Sample Number: **HL3001**

Sample Name: **HR-87Q-MW01-GW-HL3001-REG**

Sampling Method: **SP**

Collection Date: 5/25/01

Collection Time: N/A

Start Depth: No water

End Depth: 22.7' TOC

Sample Team: N. Badon, L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Comments: PID= 0.0 ppm

Sketch Location:

well not sampled, dry

DRY

Logged BY / Date: N Badon 5/25/01

Reviewed BY / Date: 05/30/01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 **Fort McClellan**

Manager: Jeanne Yacoub

RFA / COC Number:

Location Code: **HR-87Q-MW02**

Sample Number: **HL3002**

Sample Name: **HR-87Q-MW02-GW-HL3002-REG**

Sampling Method: **SP**

Sample Type: **GW** *Sample Purpose:* **REG**

Collection Date: 05/18/01

Collection Time: 0905

Start Depth: 15.61

End Depth: 15.97

Sample Matrix: **WATER**

Sample Team: A. Barnes / R. McBride

QC Partners:

(TB) NA (ER) NA (FB) NA

ERPIMS Values:

Sacode:

Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATI	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

Comments: Dry Well

Sketch Location:

Logged BY / Date: A. Barnes (10/31/01)

Reviewed BY / Date: [illegible] / 11-1-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 796887 Fort McClellan

Manager: Jeanne Yacoub

Location Code: **HR-87Q-MW02**

Sample Number: **HL3002**

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
		DRY WELL							
Sample:									

Logged BY / Date: G. Barnes (10/31/01)

Reviewed BY / Date: [illegible] 11/1/01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 Fort McClellan

Manager: Jeanne Yacoub

Site: **Range 29, Former Weapons Demonstration F**
Location Code: **HR-87Q-MW03**
Sample Number: **HL3003**
Sample Name: **HR-87Q-MW03-GW-HL3003-REG**
Sampling Method: **SP**

RFA / COC Number:
Collection Date: 5/25/07
Collection Time: N/A
Start Depth: N/A No water
End Depth: ~~N/A~~ 25.13' (TD)
Sample Team: L. O'Hare / N. Badon

ERPIMS Values:
Sacode:
Lot Control#:
Sample Matrix:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

Comments: PID = 0.0

Sketch Location:

sample not collected because dry well

DRY

Logged BY / Date: LFO 5/25/07

Reviewed BY / Date: DEKC

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 **Fort McClellan**

Manager: **Jeanne Yacoub**

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-MW03**

Sample Number: **HL3004**

Sample Name: **HR-87Q-MW03-GW-HL3004-FD**

Sampling Method: **SP**

RFA / COC Number: N/A

Collection Date: 5/25/01

Collection Time: N/A

Start Depth: no water

End Depth: 25.13'

Sample Team: L. O'Hare / N. Bado

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amber Glass
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Comments: PID = 0.0

Sketch Location:

no sample collected b/c well dry

DRY

Logged BY / Date: LFO 5/25/01

Reviewed BY / Date: Dora 5-25-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 Fort McClellan

Manager: Jeanne Yacoub

Site: **Range 29, Former Weapons Demonstration F**
Location Code: **HR-87Q-MW04**
Sample Number: **HL3005**
Sample Name: **HR-87Q-MW04-GW-HL3005-REG**
Sampling Method: **SP**

RFA / COC Number: NA
Collection Date: 5/25/01
Collection Time: NA
Start Depth: no water
End Depth: 29.1'
Sample Team: L. O'Hare / N. Baclon

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:
Sacode:
Lot Control#:
Sample Matrix:

Comments: PID = 0.0

Sketch Location:

* no sample collected because dry well

DRY

Logged BY / Date: UFO 5/25/01

Reviewed BY / Date: 5/25/01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-060101-EMAX

Site: Range 29, Former Weapons Demonstration F

Location Code: HR-87Q-MW05

Sample Number: HL3006

Sample Name: HR-87Q-MW05-GW-HL3006-REG

Sampling Method: ~~ST~~ BP, JB BA

Collection Date: 6/1/01

Collection Time: 0945

Start Depth: 34.25' TOC

End Depth: 43.14' TOC

Sample Team: N. Badon, L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Comments: PID= 0.0ppm

Sketch Location:

Logged BY / Date: Nicole Badon 6-1-01

Reviewed BY / Date: [signature] 6-1-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 **Fort McClellan**

Manager: **Jeanne Yacoub**

Location Code: **HR-87Q-MW05**

Sample Number: **HL3006**

PURGE RECORD:

	Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen ~~(ppm)~~ mg/L	Temperature (C)	Purge Volume (gal)
5/31/01	NB	1045	33.75	291	7.10	0.437	200	6.29	20.0	—
		1100	35.3	307	6.78	0.560	+999	4.90	17.6	1.35
		1115	35.9	300	6.95	0.547	+999	4.63	17.6	2.7
		1130	35.65	293	7.07	0.546	+999	5.02	19.0	3.75
		1150	35.55	269	7.41	0.514	866	5.26	21.1	5.15
		1210	35.7	270	7.44	0.497	330	5.35	20.8	6.55
		1230	36.1	266	7.47	0.494	260	5.94	21.7	7.95
		1250	36.95	281	7.46	0.518	+999	5.32	20.5	9.35
		1320	37.90	290	7.44	0.496	+999	4.87	20.8	11.45
		1350	36.8	282	7.45	0.494	+999	4.97	28.6	13.55
		1420	36.4	289	7.45	0.476	272	6.05	27.8	15.65
		1450	36.05	284	7.42	0.464	112	4.57	30.8	17.75
		1520	35.76	285	7.41	0.484	84	5.57	31.8	19.85
		1550	35.65	289	7.40	0.480	103	4.97	29.5	21.95
6/1/01	Sample: Bailed	0945	34.25	363	6.65	0.392	+999	7.94	17.1	21.95

DTW = 33.75' TOC
TD = 43.14' TOC
TD - DTW = 9.39 x 0.163 = 1.53 gallons (1 well volume)
3 volumes = 4.59 gallons
5 volumes = 7.65 gallons

Metals preserved: pH < 2

Logged BY / Date: [signature] 6/1/01 *Reviewed BY / Date:* [signature] 6-1-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-~~0730~~80101-EM

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-MW05**

Sample Number: **HL3006R**

Sample Name: **HR-87Q-MW05-GW-HL3006R-REG**

Sampling Method: ~~SP~~ BP

Collection Date: 07/31/01

Collection Time: 1340

Start Depth: 36.60

End Depth: ~~36.62~~ 36.48

Sample Team: AD – JC – BG

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
CL HERBICIDES	N	A	2	1	L	Amb. Glass
CL PESTICIDES	N	B	2	1	L	Amb. Glass
OP PESTICIDES	N	C	2	1	L	Amb. Glass

Comments:

Sketch Location:

Logged BY / Date: [signature] 07/31/01

Reviewed BY / Date: [signature] 7-31-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

Location Code: **HR-87Q-MW05**

Sample Number: **HL3006R**

BTOP – Beneath Top of Pump

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
JHC	0955	33.55	210	5.76	.007	10	6.81	29.6	— .125 gal
	1010	35.20	182	6.98	.403	>1000	4.75	21.75	1.875
	1025	36.01	182	6.99	.414	>1000	4.01	21.97	3.75
	1040	36.60	182	7.03	.420	>1000	3.70	22.36	5.625
LF –	1055	BTOP	187	7.06	.421	859	4.05	24.10	7.5 – .100 gal
	1110	36.85	182	7.23	.416	586	4.30	24.75	9
	1125	36.70	185	7.29	.415	304	3.88	29.5	10.5
	1140	36.63	183	7.34	.415	258	3.80	30.8	12
	1155	36.60	178	7.42	.411	142	4.84	32.12	13.5
	1210	36.61	178	7.41	.411	97.5	4.70	31.46	15
	1225	36.59	174	7.41	.406	72.4	5.05	29.52	16.5
	1240	36.60	182	7.41	.409	52.5	4.46	31.46	18
	1255	36.60	183	7.42	.407	41.8	3.56	31.45	19.5
	1310	36.62	178	7.41	.406	24.1	4.02	30.80	21.0
	1325	36.61	180	7.42	.406	22.0	4.05	31.90	21.5
	1340	36.60	181	7.41	.408	19.9	3.98	32.41	22.0
Sample:	1340	36.60	181	7.41	.408	19.9	3.98	32.41	22.0

TD – 43.14

DTW 34.55

8.59 x .163 = 1.4

1.4 x 3 = 4.2

1.4 x 5 = 7.0

VOC, Trace. PH < 2

Logged BY / Date: J.H. Cunningham 07/31/01

Reviewed BY / Date: 07-31-01

the i group

Well Sampling Checklist
Fort McClellan, Calhoun County, Alabama

Date: 07/31/01

Sampling Team: Bill Howe

Well ID: HR-87Q-MW05

Well Type: (circle all that apply) PVC 2" 4" Flushmount Stickup

Comments:

Item	YES	NO	Comments
Setup and Identification			
1. Was the well locked and protected?	✓		
2. Was the well properly identified using ID Tag or painted numbers?	✓		
3. Was clean, plastic sheeting placed around well to prevent contamination?	✓		
Equipment Decontamination			
1. Was decontaminated water level indicator tape used?	✓		
2. If pump was used, was it properly decontaminated? (Teflon tubing, submersible pump)	✓		
Purging and Stabilization			
1. Check the applicable method: ____ Peristaltic Pump ____ Bailer (Teflon or Poly) ____ Submersible Pump (Grunfos, Whale) ✓ Other: Micro Purge Bladder Pump	N/A	N/A	
2. Were field measured parameters stable before sampling: pH < 10% change, temp +/- 2 deg C, cond < 10% change, turb < 10 NTU	✓ Yes		

Other Comments:

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 Fort McClellan

Manager: Jeanne Yacoub

Site: **Range 29, Former Weapons Demonstration F**
Location Code: **HR-87Q-MW09**
Sample Number: **HL3010**
Sample Name: **HR-87Q-MW09-GW-HL3010-REG**
Sampling Method: **SP**

RFA / COC Number:
Collection Date: 5/25/01
Collection Time: N/A
Start Depth: 22.18'
End Depth: 22.6'
Sample Team: L. O'Hara / N. Bador

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:
Sacode:
Lot Control#:
Sample Matrix:

Comments: PID = 0.0

Sketch Location:

* well dry, no sample

DRY

Logged BY / Date: UFO 5/25/01 *Reviewed BY / Date:* 05/30/01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number:

Site: Range 29, Former Weapons Demonstration F

Location Code: HR-87Q-MW10

Sample Number: HL3011

Sample Name: HR-87Q-MW10-GW-HL3011-REG

Sampling Method: ~~SP~~ NB BA

NB ~~Collection~~ Date: 6/1/01

NB ~~Collection~~ Time: 0845

Start Depth: 41.64' TOC

End Depth: 43.13' TOC

Sample Team: N. Badon, L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Comments: PID = 0.0 ppm

Attempted to bail samples, well is not recharging at a sufficient rate. Removed 1.5 gallons on 5/31/01, removed ~1 L 6/1/01

Sketch Location:

5/31/01

DTW = 40.13' TOC

TD = 43.13' TOC

TD - DTW = 3.00 x 0.163 = 1 well volume

0.5 gallons

3 volumes = 1.5 gallons

5 volumes = 2.5 gallons

Logged BY / Date: N. Badon 6/1/01

Reviewed BY / Date: 06/05/01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 Fort McClellan

Manager: Jeanne Yacoub

Site: **Range 29, Former Weapons Demonstration F**
Location Code: **HR-87Q-MW11**
Sample Number: **HL3012**
Sample Name: **HR-87Q-MW11-GW-HL3012-REG**
Sampling Method: **SP**

RFA / COC Number:
Collection Date: 5/25/01
Collection Time: N/A
Start Depth: No water
End Depth: 49.77' TOC
Sample Team: N. Badon, L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:
Sacode:
Lot Control#:
Sample Matrix:

Comments: PID= 0.0 ppm

Sketch Location: well not sampled, dry.

DRY

Logged BY / Date: N Badon 5/25/01

Reviewed BY / Date: 05/30/

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-052301-EMAK

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-MW12**

Sample Number: **HL3013**

Sample Name: **HR-87Q-MW12-GW-HL3013-REG**

Sampling Method: ~~SP~~ BA

Collection Date: 5/22/01

Collection Time: 1430

Start Depth: 27.60

End Depth: 31.0

Sample Team: J. Cunningham, K. Hunter

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type	
METALS-W	N	A	1	1	L	HDPE	✓
NITROAROMATIC	N	B	2	1	L	Amb. Glass	✓
PERCHLORATE	N	C	1	500	mL	HDPE	✓
VOLATILES_3	N	D	3	40	mL	VOA Vial	✓
SEMIVOLATILES_	N	E	2	1	L	Amb. Glass	✓
CL HERBICIDES	N	F	2	1	L	Amb. Glass	✓
CL PESTICIDES	N	G	2	1	L	Amb. Glass	✓
OP PESTICIDES	N	H	2	1	L	Amb. Glass	✓
PCBs	N	I	2	1	L	Amb. Glass	✓

Comments: Limited volume of water available - only 1L collected for each

Sketch Location: See map

Logged BY / Date: K. Hunter 5/22/01

Reviewed BY / Date: DeKoe 5-22-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

Location Code: **HR-87Q-MW12**

Sample Number: **HL3013**

PURGE RECORD:

	Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (~~ppm~~) mg/L	Temperature (C)	Purge Volume (gal)
5/21/01	CH	1245	27.60	156	6.84	.086	258	9.26	30.12	—
		1255	30.31	209	5.13	.226	>1000	1.09	20.31	1.25
		1305	30.90	234	5.14	.225	>1000	1.09	22.73	2.50
		1315	31.49	202	5.15	.229	912	1.11	28.12	3.75
		1325	31.73	184	5.19	.229	549	1.02	31.19	5.00
		1335	31.75	188	5.17	.229	527	1.38	32.53	6.25
		1345	31.77	191	5.10	.229	412	1.32	34.74	7.50
		1355	31.79	196	5.01	.229	650	1.72	35.91	8.75
		1600	BTOP	190	5.04	.188	242	2.19	28.40	12.5
		1636	33.9	202	4.99	.186	175	2.21	28.00	16.25
5/22/01	Sample:	1430	31.0	—	5.27	.254	76.0	3.25	18.6	

TD 38.35
DTW 27.60
10.75 X .163 = 1.75
1.75 X 3 = 5.25 1.75 X 5 = 8.75

VOC frac pH <2
metals frac pH <2

Metals Fraction Decanted

BTOP - Beneath top of pump

Logged BY / Date: [signature] 5/22/01

Reviewed BY / Date: [signature] 5-22-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 **Fort McClellan**

Manager: **Jeanne Yacoub**

RFA / COC Number: N/A

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-MW13**

Sample Number: **HL3016**

Sample Name: **HR-87Q-MW13-GW-HL3016-REG**

Sampling Method: **SP**

Collection Date: 5/25/01

Collection Time: NA

Start Depth: No water

End Depth: 67.75'

Sample Team: L O'Hare N Bado

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Gl
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Comments: PID=0.0

Sketch Location:

Sample not collected because dry well

DRY

Logged BY / Date: LFO 5/25/01

Reviewed BY / Date: DOK 5/25/01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-051001-EM-4K

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-MW14**

Sample Number: **HL3017**

Sample Name: **HR-87Q-MW14-GW-HL3017-REG**

Sampling Method: ~~SP~~ PP

Collection Date: 5/10/01

Collection Time: 1710

Start Depth: 11.75

End Depth: 16.10

Sample Team: J. Cunningham, L. Hunter

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Comments:

Sketch Location: See map

Logged BY / Date: L. Hunter 5/10/01

Reviewed BY / Date: 5-10-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

Location Code: **HR-87Q-MW14**

Sample Number: **HL3017**

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen ~~(ppm)~~ mg/L	Temperature (C)	Purge Volume (gal)
KH	1505	11.75	146	6.31	.303	18.1	2.7	16.48	—
	1530	15.69	150	6.23	.246	17.1	4.0	16.21	3.75
	1555	16.02	158	6.20	.175	30.7	4.21	16.06	7.5
	1625	16.10	194	5.54	.118	25.1	5.32	15.97	12.0
	1655	16.07	196	5.50	.101	19.2	5.31	15.78	16.5
	1700	16.07	204	5.53	.098	17.6	7.28	15.76	17.25
	1705	16.08	205	5.52	.096	17.4	6.36	15.77	18.00
	~~1710~~	~~1610~~	~~205~~	~~5.~~	KH 5/10/01				
Sample:	1710	1610	205	5.55	.095	16.7 / 6.6	6.25	15.73	18.75

Note: higher Turbity reading taken with DRT-15CE, lower reading taken with flow thru cell.

TD 39.90
DTW 11.75
28.15 x .163 = 4.59
4.59 x 3 = 13.77
4.59 x 5 = 22.95

VOC. Frac. < 2 pH

Logged BY / Date: K Hunter 5/10/01

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-073001-EMAX

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-MW14**

Sample Number: **HL3017R**

Sample Name: **HR-87Q-MW14-GW-HL3017R-REG**

Sampling Method: ~~SP~~ BP

Collection Date: 7/30/01

Collection Time: 1225

Start Depth: 16.93

End Depth: 16.95

Sample Team: BG, RG, AJ

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
CL HERBICIDES	N	A	2	1	L	Amb. Glass
CL PESTICIDES	N	B	2	1	L	Amb. Glass
OP PESTICIDES	N	C	2	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Comments: PID = 0.0 ppm

Sketch Location:

Logged BY / Date: Bill Graves 7/30/01

Reviewed BY / Date: DRK 7-30-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

Location Code: **HR-87Q-MW14**

Sample Number: **HL3017R**

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
	1040	13.82	163	6.68	.307	23.2	2.24	19.42	—
	1110	16.95	158	6.65	.266	1.7	2.10	21.51	3.75
	1140	16.90	141	6.86	.269	0.5	2.04	21.33	7.50
	1210	16.93	139	6.79	.203	6.8	2.03	24.04	11.25
	1215	16.95	141	6.74	.180	6.2	3.11	21.57	11.87
	1220	16.96	143	6.70	.179	5.9	3.10	22.51	12.50
	1225	16.93	142	6.69	.181	5.7	3.14	22.20	13.13
Sample:	1225	16.93	142	6.69	.181	5.7	3.14	22.20	13.13

TD = 35.90 ft
- DTW = 13.82 ft
22.08 ft in column
x .163 = 3.7164 per/vol (gal)
x 3 = 11.1492 gal
x 5 = 18.58 gal

Flow Rate = .125 gal/min

Logged BY / Date: Bill Groves 7/30/01

Reviewed BY / Date: [signature] 7-30-01

the igroup

Well Sampling Checklist
Fort McClellan, Calhoun County, Alabama

Date: 7/30/01

Sampling Team: Bill Groves, Reggie Goins

Well ID: HR-87Q-MW14

Well Type: (circle all that apply) PVC 2" 4" Flushmount Stickup

Comments:

Item	YES	NO	Comments
Setup and Identification			
1. Was the well locked and protected?	✓		
2. Was the well properly identified using ID Tag or painted numbers?	✓		
3. Was clean, plastic sheeting placed around well to prevent contamination?	✓		
Equipment Decontamination			
1. Was decontaminated water level indicator tape used?	✓		
2. If pump was used, was it properly decontaminated? (Teflon tubing, submersible pump)	✓		
Purging and Stabilization			
1. Check the applicable method: ____ Peristaltic Pump ____ Bailer (Teflon or Poly) ____ Submersible Pump (Grunfos, Whale) ✓ Other: Bladder	N/A	N/A	
2. Were field measured parameters stable before sampling: pH < 10% change, temp +/- 2 deg C, cond < 10% change, turb < 10 NTU	✓		

Other Comments:

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q ~~15~~ 051801-EMA

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-MW15**

Sample Number: **HL3018**

Sample Name: **HR-87Q-MW15-GW-HL3018-REG**

Sampling Method: ~~SP~~ PP

Collection Date: 5/18/01

Collection Time: 1055

Start Depth: 18.17

End Depth: ~~1055~~ 5/18/01 18.78

Sample Team: J. Cunningham K. Hunter

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Comments:

Sketch Location: See map

Logged BY / Date: K. Hunter 5/18/01

Reviewed BY / Date: 5-18-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

Location Code: **HR-87Q-MW15**

Sample Number: **HL3018**

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen ~~(ppm)~~ mg/L	Temperature (C)	Purge Volume (gal)
KH	0930	18.17	212	6.54	.236	50.1	6.0	19.32	—
	1000	18.65	190	7.03	.297	92.2	2.49	16.41	3.0
	1020	18.76	195	6.99	.319	45.5	3.91	16.59	6.0
	1040	18.79	199	7.06	.325	19.4	4.56	16.78	9.0
	1045	18.77	198	7.07	.326	13.9	4.80	16.87	9.75
	1050	18.78	197	7.08	.327	8.1	4.57	16.84	10.5
Sample:	1055	18.78	198	7.09	.327	7.6	5.22	16.85	11.25

TD 40.11
DTW 18.17
21.94 x .163 = 3.6

3.6 x 3 = 10.8
3.6 x 5 = 18.0

~~voc frac~~ KH 5/18/01
metals frac pH < 2

Logged BY / Date: T. Hunter 5/18/01

Reviewed BY / Date: [illegible] 5-18-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 87Q-~~073001~~ 073101 FMAV

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-MW15**

Sample Number: **HL3018R**

Sample Name: **HR-87Q-MW15-GW-HL3018R-REG**

Sampling Method: **SP**

Collection Date: 7/30/01

Collection Time: 1700

Start Depth: 16.29

End Depth: 16.31

Sample Team: BG, RG, AJ

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
CL HERBICIDES	N	A	2	1	L	Amb. Glass
CL PESTICIDES	N	B	2	1	L	Amb. Glass
OP PESTICIDES	N	C	2	1	L	Amb. Glass

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Comments:

Sketch Location:

Total Depth = 37.50 ft
− Depth to Water = 15.39 ft

22.11 ft water in column

2" well X .163 = 3.60 gallons/volume
X 3 = 10.80 gallons
X 5 = 18.01 gallons

Logged BY / Date: Bill Groves 7/30/01 *Reviewed BY / Date:* [illegible] 7-30-01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

Location Code: **HR-87Q-MW15**

Sample Number: **HL3018R**

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
✓	1515	15.39	228	6.55	.209	305.0	3.16	20.26	—
	1545	16.02	162	7.35	.319	36.7	12.11	20.58	3.75
	1615	16.10	165	7.39	.314	12.8	11.70	20.05	7.50
	1645	16.21	165	7.37	.313	10.7	14.29	19.41	11.25
	1650	16.29	167	7.36	.313	10.6	14.78	19.07	11.87
	1655	16.27	168	7.36	.312	10.4	14.71	19.06	12.50
	1700	16.29	168	7.36	.312	10.3	14.77	19.07	13.13
Sample:	1700	16.29	168	7.36	.312	10.3	14.77	19.07	13.13

Purge rate .125 gal throughout event

Logged BY / Date: Bill Groves 7/30/01 *Reviewed BY / Date:* _____

the igroup

Well Sampling Checklist
Fort McClellan, Calhoun County, Alabama

Item	YES	NO	Comments
Sampling			
1. Were clean gloves used to collect sample?	✓		
2. Were samples labeled and placed on ice at 4 deg C immediately upon collection?	✓		
3. Were chemical preservatives added and final pH checked? (check all that apply): N/A ____ VOC (HCl to pH <2) ____ Metals (HNO3 to pH <2) Other: (Document preservative check on SCL and on container)			
4. Will metals require decanting before lab shipment? (If so, document on SCL and container) N/A			None Taken
Post-Sampling			
1. Were samples transferred to onsite refrigerator?	✓		
2. Were logbook copies and SCL/ checklist given to sample coordinator at end of day?	✓		
3. Was any equipment decontaminated in the field?		✓	If Yes, Describe:
4. Was PPE disposed of at staging area in PPE dumpster?	✓		
5. Was liquid IDW transported/ disposed at staging area in sump?	✓		
Overall			
1. Were any deviations from the work plan or SOP encountered?		✓	If Yes, Describe:

Other Comments:

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

RFI / COC Number:

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-MW16**

Sample Number: **HL3019**

Sample Name: **HR-87Q-MW16-GW-HL3019-REG**

Sampling Method: **SP**

Collection Date: 5/21/01

Collection Time: 1405

Start Depth: 22.62

End Depth: ~~23.46~~ 25.30

Sample Team: J. Cunningham, K. Hunter

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

Comments: Well dry

Sketch Location:

DRY

Logged BY / Date: K. Hunter 5/21/01

Reviewed BY / Date: [illegible]

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

Location Code: **HR-87Q-MW16**

Sample Number: **HL3019**

PURGE RECORD:

	Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen ~~(ppm)~~ mg/L	Temperature (C)	Purge Volume (gal)
5/18/01	JC	1315	22.62	121	6.61	.478	81.7	1.57	20.1	—
		1325	23.91	117	6.68	.480	53.9	1.54	19.9	1
		1335	24.81	112	6.66	.479	137.1	1.25	20.6	1.5
		1345	24.89	190	6.70	.470	471.2	1.49	24.1	2
		1400	pulled pump and bailed dry							
		1415	well dry							
		1630	Only recovered to 24.71 DTW - unable to bail							
5/21/01		1405	removed .25 Liters - Dry 23.46							
Sample:										

well dry

Logged BY / Date: S. Lurter 5/24/01

Reviewed BY / Date: DeKc

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 **Fort McClellan**

Manager: Jeanne Yacoub

RFA / COC Number:

Site: **Range 29, Former Weapons Demonstration F**

Location Code: **HR-87Q-MW17**

Sample Number: **HL3020**

Sample Name: **HR-87Q-MW17-GW-HL3020-REG**

Sampling Method: **SP**

Collection Date: 5/25/01

Collection Time: N/A

Start Depth: 18.58' TOC

End Depth: 20.79' TOC

Sample Team: N. Badon, L. O'Hare

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Comments: PID=0.0ppm

Sketch Location:

well not sampled, dry

DRY

Logged BY / Date: Nicole Badon 5/25/01 *Reviewed BY / Date:*

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 Fort McClellan

Manager: Jeanne Yacoub

Site: **Range 29, Former Weapons Demonstration F**
Location Code: **HR-87Q-MW18**
Sample Number: **HL3021**
Sample Name: **HR-87Q-MW18-GW-HL3021-REG**
Sampling Method: **SP**

RFA / COC Number:
Collection Date:
Collection Time: 5/25/01 N/A
Start Depth: 12.32'
End Depth: 12.43'
Sample Team: L. O'Hara / N. Badon

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE

ERPIMS Values:
Sacode:
Lot Control#:
Sample Matrix:

Comments: PID = 0.0

Sketch Location:

* dry - well not sampled

DRY

Logged BY / Date: UFO 5/25/01

Reviewed BY / Date: 05/30/01

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: ~~780567~~ 796887 Fort McClellan

Manager: Jeanne Yacoub

Site: **Range 29, Former Weapons Demonstration F**
Location Code: **HR-87Q-MW19**
Sample Number: **HL3022**
Sample Name: **HR-87Q-MW19-GW-HL3022-REG**
Sampling Method: **SP**

RFA COC Number:
Collection Date: 5/25/01
Collection Time: NA
Start Depth: 26.2'
End Depth: 26.5'
Sample Team: L. O'Hare / N Bader

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
METALS-W	N	A	1	1	L	HDPE
NITROAROMATIC	N	B	2	1	L	Amb. Glass
PERCHLORATE	N	C	1	500	mL	HDPE
VOLATILES_3	N	D	3	40	mL	VOA Vial

ERPIMS Values:
Sacode:
Lot Control#:
Sample Matrix:

Comments: PID=0.0

Sketch Location:
Sample not collected because dry well

DRY

Logged BY / Date: LO 5/25/01

Reviewed BY / Date: