FORMER GASTOWN MGP SITE SITE NO. 915171

2015 SITE VISIT CHECKLISTS FOR THE GROUNDWATER COLLECTION & TREATMENT SYSTEM

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	1(0	PSI
DNAPL pump pressure (departure)	16	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	X	Arrow
Refill control setting (departure)	1	Arrow
Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity.	Cool Yes Good	No Poor No Poor
DNAPL Pump and Piping DNAPL piping integrity. DNAPL pump cleaned?	(Good) Yes 23.50	Poor No Feet
DNAPL top of pump depth.		

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	90	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	K	Arrow
LNAPL Pump and Piping		_
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14.40	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No
Technician: J. Clay M. R.	esch	
Date: 1-2-15		

Table 4-1

LNAPL/Groundwater System - (Continue	ed)	
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.60	GPM
Totalizer reading (cumulative volume).	36950.5	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	24	4
Filter unit 2 pressure @ Arrival (In /Out)	16	8
Filter unit 1 pressure @ Departure (In/Or	ut)	
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI

Secondarv carbon drum integritv. Secondarv carbon drum leaks? Secondarv carbon drum pressure. Secondarv carbon rotated to primarv?

Primary drum removed for disposal?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondary!? New carbon polishing drum?

Discharge Piping		
Pipe intearity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	NO
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	198.9	Hours
Oil level checked?	(Yes)	No
Oil level changed?	Yes	No
Compressor trap operating?	Kee	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarteriv
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	20	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.		Gallons

Product, Carbon. Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

CNO

Poor

No

PSI

NO

Poor

No

PSI

NA

No

Yes

Good

Yes

Yes Good

> Yes O.5

Yes

Yes

3

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	16	PSI
DNAPL pump pressure (departure)	16	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)		Arrow
DNAPL Drum High level shut off operational?	Tes	No
-		
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	NO
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	23.50	Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No

0

20

5

Yes R

2

Good

Yes

14.40

PSI

PSI

PSI No

Arrow

Arrow

Poor No

Feet

No No Poor No Poor Poor No No

No

Operational upon arrival?
LNAPL pump pressure (arrival)
LNAPL pump pressure (departure)
Bubbler tube operating pressure.
Pneumatic settings adjusted?
Discharge control setting (departure)
Refill control setting (departure)
LNAPL Pump and Piping
LNAPL piping integrity.
LNAPL pump cleaned?

LNA LNAPL top of pump depth.

Oil/Water Separator

Water high level shut-off operational?	Yes
Red warning light operational?	Yes
Separator vessel integrity.	Good
Leaks present?	Yes
Separator cover and seal integrity.	Good
Decant valve integrity.	Good
LNAPL in separator?	Yes
Separator needs cleaning?	Yes
Separator cleaned?	Yes
Technician: T. Falmy	
Date: 1-7-14	

Table 4-1

LNAPL/Groundwater System - (Continued)	-	1
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	5.41	GPM
Totalizer reading (cumulative volume).	42203.5	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	26	9.5
Filter unit 2 pressure @ Arrival (In /Out)	18	8.5
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5.5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	25	PSI
Secondary carbon rotated to primary?	Yes	NO
deconduity carbon totaled to printery.		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	0.5	PSI
Polishing drum rotated to secondaryl?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Bing at stock close?	Vaa	No

Pipe at creek clear?

= too sloppen to get down to creek

Yes

No

Miscellaneous		5.10
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yas	No
Repairs/work needed?	TO Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No.
Heater operational	Yes	No

Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	202.4	Hours
Oll level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
	_	
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterh
Sampling event? Product sampled?	Monthlv Yes	Quarterly
Product sampled?		
Product sampled? Recovery and Disposal Recovery from DNAPL Drum		
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		<u>No</u> Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		<u>No</u> Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		Quarterity No Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.		No Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	Yes	No Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.		No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	Yes	No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL to disposal drum. DNAPL/water to disposal drum.	Yes	No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to oil/water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL/water separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water separator Pure DNAPL to disposal drum. DNAPL/water separator Pure DNAPL to disposal drum. DNAPL/water separator Pure DNAPL to disposal drum. Pure DNAPL to disposal drum. Pure DNAPL to disposal drum.	Yes	No Gallons Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL to disposal drum. DNAPL/water to disposal drum. Spant carbon drums		No Gallons Gallons Gallons Gallons Gallons Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL to disposal drum. DNAPL/water to disposal drum. PNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		No Gallons Gallons Gallons Gallons Gallons Drums Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Spent carbon drums		No Gallons Gallons Gallons Gallons Gallons Drums Drums

Fan Running?		Yes	No
Vac at sump enclosure? (Yes	110

Notes: System down upon arrival due to flowt in OWS being stude. - Insufficient water to fully cycle system (Reading didn't stabilize fully)

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	16	PSI
DNAPL pump pressure (departure)	16	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)	ス	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	23.50	Feet
		L

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Апом
Refill control setting (departure)	X	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14-40	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	Nø
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No
Technician: T-Palmer		
INK	- · · · · · · · ·	
Date:		

Date:

Table 4-1

LNAPL/Groundwater System - (Continued)		5
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.5	GPM
Totalizer reading (cumulative volume).	46508.2	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	25	8
Filter unit 2 pressure @ Årrfval (In /Out)	17	7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	CNO
Primary carbon drum pressure.	5.5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity	Good	Poor

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

·	
Good	Poor
Good	Poor
Yes	No
Good	Poor
Yes	No
	Good

Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	Nø
	Yes	
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Good	Poor
Yes	CNO
5.5	PSI
Yes	No

Good	Poor	
Yes	NO	
3.5	PSI	
Vee		

Good	Poor
Yes	No
0.5	PSI
Yes	No
Yes	No

Good	Poor
Good	Poor
Yes	No
Good	Poor
Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		\smile
Compressor operational?	Yes	No
Compressor hours.	207-1	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	
Compressor trap operating?	Yes	No
Regulator operating?	Tes	No
Air lines performing properly?	Yes	No

Site Visit Checklist/Data Sheet

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	22	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	1	Drums
PPE/Solids drums		Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	Na
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

* drive around to look @ from other sole of anal - Transfer pump sample a little local, Need to clerk Por rebuild lat

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	iŚ	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	A	Апоw
Refill control setting (departure)	74	Arrow
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	CYES	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
	\bigcirc	
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	Nó
Discharge control setting (departure)	*	Arrow
Refill control setting (departure)	The I	Arrow
INAPL Pump and Piping		_
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	NO
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	00
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	8
Separator cleaned?	Yes	(No
Technician: <u>M. VC</u> Date: <u>1</u>]21]15		

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Xes)	No
Pump integrity.	Good	Poor
Flow meter operational?		No
Transfer pump flow rate.	2.58	GPM
Totalizer reading (cumulative volume).	49663.4	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	3	6
Filter unit 2 pressure @ Arrival (In /Out)	15	5.5
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	NO
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	Nð

Polishina carbon drum Intearity. Polishina carbon drum leaks? Polishina carbon drum pressure. Polishina drum rotated to secondarv!? New carbon polishina drum?

5	Poor
	Poor
	No
	Poor
	No
	and the second se

Good

Yes

Yes

Yes

Poor

PSI

R

Building and Site		
Remediation shed intearity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	(10)
Spill evidence?	Yes	No
		\cup
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	(No)
		\sim
Air Compressor		
Compressor operational?	Ver	No
Compressor hours.	212.0	Hours
Oil level checked?	Y	No
Oil level changed?	Ves	No
Compressor trap operating?	62	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
<u>_</u>		
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time	1970	
Pre-Carbon Sample Time	1330	
Sampling event?	Montha	Quarterly
Product sampled?	Yes	(NO)
		\sim
Recovery and Disposal		
Recoverv from DNAPL Drum		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
		Capitoria
DNAPL/water to oil/water separator.	20	Gallons
	20	
Recovery from Oil/Water Separator	20	Gallons
Recovery from Oil/Water Separator Pure DNAPL to disposal drum.		
Recovery from Oil/Water Separator	20 0	Gallons
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage		Gallons Gallons Gallons
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage		Gallons Gallons Gallons
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Drums
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Drums Drums
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <i>Product. Carbon. Waste Storage</i> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Drums Drums Drums
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums		Gallons Gallons Gallons Drums Drums Drums Drums
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?	(B)	Gallons Gallons Gallons Drums Drums Drums No
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized? Club Vent System		Gallons Gallons Gallons Drums Drums Drums No No
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?	(B)	Gallons Gallons Gallons Drums Drums Drums No



DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	151	PSI
DNAPL pump pressure (departure)	15	PSL
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	T	Arrow
Refill control setting (departure)	71	Arrow
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present?	Yes Good Yes	No No Poor
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	23.55	Feet

LNAPL/Groundwater System		-
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	L L	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14.40	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump Integrity.	Godd	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	9.30	GPM
Totalizer reading (cumulative volume).	51414.	/ Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	25	8.5
Filter unit 2 pressure @ Arrival (In /Out)	20	C.S
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.		PSI

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Primary drum removed for disposal?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping			
Pipe Integrity in shed.	Good	Poor	
Pipe integrity at catch basin.	Good	Poor	
Pipe at catch basin clear?	Yes	No	
Pipe integrity at creek.	Good	Poor	
Pipe at creek clear?	Yes	No	

Good	Poor
Yes	No
Yes	No
Yes	No
	Yes

Site Visit Checklist/Data Sheet

Access Vaults Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	216.6	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	NO
Compressor trap operating?	Yes	No
Reculator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recoverv from DNAPL Drum Pure DNAPL to disposal drum, DNAPL/water to disposal drum,	0	Gallons
DNAPL/water to oil/water separator.	8	Gallons
Recoverv from Oll/Water Separator Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.		Gallons
Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)		Drums

Spent carbon drums		Drums	
PPE/Solids drums		Drums	
LNAPL drums	0	Drums	
Drums labeled?	Yes	No	
Drums palletized?	Yes	No	
Club Vent System			
Fan Running?	Ves -	No	
Vac at sump enclosure? (Check Monthly)	Yes	No	

Notes:

No

Poor No

> PSI No

Poor No

PSI

No

No

Yes Good

> Yes 4

> Yes

Good

Yes

Yes

Yes

Date:

1128

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	Nor
Discharge control setting (departure)	3	Arrow
Refill control setting (departure)	7	Arrow
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present?	Yes Good Yes	No No Poor
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping DNAPL piping integrity. DNAPL pump cleaned?	Good) Yes	Poor
DNAPL top of pump depth.	2350	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yess	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	Ng
Discharge control setting (departure)	*	Arrow
Refill control setting (departure)	2	Апоw
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	NO
LNAPL top of pump depth.	14.40	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
Red warning light operational?	CTEST	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	(No
Separator needs cleaning?	Yes	NO
	Yes	No

214/15 Date:

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	(Ye3	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.50	GPM
Totalizer reading (cumulative volume).	52671.7	Gallons
Water filters changed?	Yes	No 3
Filter unit 1 pressure @ Arrival (In/Out)	20	8
Filter unit 2 pressure @ Arrival (In /Out)	13	~7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.		PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	(No)

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping		
Pipe intearity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	(es)	No

Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	(Yes)	No
Repairs/work needed?	Yes	NO
Spill evidence?	Yes	No)
		-
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Xoo ,	No

Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	
Repairs needed to values?	<u>res</u>	No
Air Compressor		
Compressor operational?	(GS)	No
Compressor hours.	221.1	Hours
Oil level checked?	<u>(</u>	No
Oil level changed?	Yes	
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	(65)	No
Sampling		
Sampling Performed?	Yes_	40
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recovery and Disposal Recovery from DNAPL Drum		
	0	Gallons
Recovery from DNAPL Drum	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	0	
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator.	0	Gailons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Recovery from Oll/Water Separator	0	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum.	0	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Recovery from Oll/Water Separator		Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storade DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums Drums Drums

Ye

No

No

Notes:

Fan Running?

Vac at sump enclosure? (Check Monthly)

PSI NO

Poor TRO

PSI

0

NO

4

Yes

Good

Yes Yes

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	Nø
Discharge control setting (departure)	+	Arrow
Refill control setting (departure)	*	Arrow
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present?	Constant	No No Poor
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	NO
DNAPL top of pump depth.	23.50	Feet

e.			
	LNAPL/Groundwater System		
	Operational upon arrival?	Yes	No
I	LNAPL pump pressure (arrival)	20	PSI
I	LNAPL pump pressure (departure)	20	PSI
	Bubbler tube operating pressure.	5	PSI
I	Pneumatic settings adjusted?	Yes	No
I	Discharge control setting (departure)	*	Arrow
l	Refill control setting (departure)	X	Arrow
I			
Į	LNAPL Pump and Piping		
l	LNAPL piping integrity.	Good	Poor
1	LNAPL pump cleaned?	Yes	No
	LNAPL top of pump depth.	14.40	Feet
			-
	<u>Oil/Water Separator</u>		
	Water high level shut-off operational?	Yes	No
	Red warning light operational?	Ves	No
	Separator vessel integrity.	Good	Poor
	Leaks present?	Yes	No
	Separator cover and seal integrity.	Good	Poor
	Decant valve integrity.	Gool	Poor
	LNAPL in separator?	Yes	No

101516

Yes

Yes

No

NO

LNAPL in separator? Separator needs cleaning? Separator cleaned?

Technician: 2

Date:

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3,57	GPM
Totalizer reading (cumulative volume).	5391944	Gallons
Water filters changed?	Yes	ND
Filter unit 1 pressure @ Arrival (In/Out)	20	7
Filter unit 2 pressure @ Arrival (In /Out)	13	7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor

Yes

4

Yes >

Good

Yes 3

Yes

Good

Yes

1 Yes

Yes

No

PSL

No

Poor

No

PSI

No

Poor

NO PSI

No

No

Primary carbon drum leaks? Primary carbon drum pressure. Primary drum removed for disposal?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishina carbon drum intearity. Polishing carbon drum leaks? Pollshing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Goold	Poor
Pipe at creek clear?	Yes	No

Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	ZNO
Spill evidence?	Yes	N
Electrical and Heating	Yes	No
	Yes	-4

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	227.6	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	Na
Compressor trap operating?	Yes	No
Regulator operating?	Yes	. No
Air lines performing properly?	Yes	No
Sampling		<u> </u>
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
0		0.14
Sampling event?	Monthly	Quarteriv
Sampling event? Product sampled? Recovery and Disposel	<u>Monthly</u> Yes	Quanteriv No
Product sampled? Recovery and Disposel Recovery from DNAPL Drum		<u>No</u>
Product sampled?		Gallons
Product sampled? Recovery and Disposel Recovery from DNAPL Drum Pure DNAPL to disposal drum.		Gallons
Product sampled? Recovery and Disposel Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		No Gallons Gallons
Product sampled? Recovery and Disposel Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		No Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.		No Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator		Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon. Waste Storage DNAPL drums on-site (full and fractional)	Yes 0 7 0 0 0	No Gallons Gallons Gallons Gallons Callons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	Yes 0 7 0 2	No Gallons Gallons Gallons Gallons Gallons Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	Yes 0 7 0 2 1	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	Yes 0 7 0 7 0 1 0	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums No
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	Yes 0 7 0 7 0 1 0	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums No
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums No

Notes: Corbon chige yesterla C-1 disposal / CZ to CI/C3 to C2 New corbon e C3

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	NO
Discharge control setting (departure)	T	Arrow
Refill control setting (departure)	7	Arrow
High level shut off operational? Green warning light operational?	(Tes	No No
DNAPL Drum High level shut off operational?	Res	No
	Good	Poor
DNAPL drum container integrity.	Yes	No
Leaks present?		
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		100
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)	2	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14.40	Feet
	·	
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

T-Palmer Technici 2-18-15

ecnnicia	n:		-
	0	11	2

Date:

Table 4-1

LNAPL/Groundwater System - (Continued)	a	
Transfer Pump and Ploing		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.50	GPM
Totalizer reading (cumulative volume).	54575.7	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	30	8
Filter unit 2 pressure @ Arrival (In /Out)	11	6.5
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No

5

Yes

Good

Yes 3

Yes

Good

Yes O.S

Yes

Yes

PSI

No

Poor

No

PSI No

Poor

NG

PSI

Primary carbon drum leaks? Primary carbon drum pressure. Primary drum removed for disposal?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Pollshing carbon drum leaks? Pollshing carbon drum pressure. Pollshing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek. 3 Too much	Good	Poor
Pipe at creek clear? Swow	Yes	No

Miscellaneous		
Building and Site		
Remediation shed integrity.	Geod	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	- Ro
Spill evidence?	Yes	(No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Access Vaults	Good	Poor
Overall vault integrity. Zundy Repairs needed to vaults? Swow	Yes	No
SWOW		
Air Compressor		
Compressor operational?	234.7	<u>No</u>
Compressor hours.		Hours
Oil level checked?	Yes	No
Oll level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time	1530	
Pre-Carbon Sample Time	1555	
Sampling event?	Monthly	Quarterly
		No
Product sampled?	Yes	
Product sampled?		
Recovery and Disposal	0	
Recovery and Disposal Recoverv from DNAPL Drum		Gallons
Recovery and Disposal Recoverv from DNAPL Drum Pure DNAPL to disposal drum.	0	Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0	Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0	Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storaae	0	Gallons Gallons Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Gallons Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	0	Gallons Gallons Gallons Gallons Gallons Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storaae DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storade DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storade DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums No
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storade DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storade DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums No
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL to disposal drum. DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storace DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized? Club Vent System		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums No No

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	TS,	PSI
DNAPL pump pressure (departure)	16	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	1	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	23.55	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20,	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	21	Arrov
LNAPL Pump and Piping	Good	Poor
LNAPL piping integrity.		Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14.110	Feet
<u>Oil/Water Separator</u>		

Yes

Yes

Good

Yes

Good

Good

Yes

Yes

Yes

No

No

Poor

No

Poor

Poor

No

NO

No

	Oll/Water Separator	
	Water high level shut-off operational?	
	Red warning light operational?	
	Separator vessel integrity.	
ľ	Leaks present?	
1	Separator cover and seal integrity.	
	Decant valve integrity.	
Ì	LNAPL in separator?	
	Separator needs cleaning?	
	Separator cleaned?	
1	Technician: Milling	
1	Technician:	

2 2

Date:

Table 4-1

	LNAPL/Groundwater System - (Continued)		
	Transfer Pump and Piping		_
	Pump operational?	(Yes)	No
	Pump integrity.	Goed	Poor
	Flow meter operational?	Yes	No
ł	Transfer pump flow rate.	3.72	GPM
	Totalizer reading (cumulative volume).	55202	Gallons
I	Water filters changed?	Yes	NO
	Filter unit 1 pressure @ Arrival (In/Out)	20	7
	Filter unit 2 pressure @ Arrival (In /Out)	13	6
	Filter unit 1 pressure @ Departure (In/Out)		
	Filter unit 2 pressure @ Departure		
	Carbon Treatment Drums		
I	Primary carbon drum integrity.	Good	Poor
l	Primary carbon drum leaks?	Yes	No
l	Primary carbon drum pressure.	4	PSI
I	Primary drum removed for disposal?	Yes	No
I			
I	Secondarv carbon drum integrity.	Good	Poor
I	Secondary carbon drum leaks?	Yes	(No
I	Secondary carbon drum pressure.	3	PSI
	Secondary carbon rotated to primary?	Yes	No
	Polishing carbon drum integrity.	Good	Poor
	Polishing carbon drum leaks?	Yes	No
	Polishing carbon drum pressure.	1	PSI
	Polishing drum rotated to secondarvi?	Yes	No
	New carbon polishing drum?	Yes	No
	Discharge Piping		
	Pipe integrity in shed.	Good	Poor
	Pipe integrity at catch basin.	Good	Poor
1	Pipe at catch basin clear?	Yes	No.
1	Pipe integrity at creek.	Good	Poor
ļ	Pipe at creek clear? Not buildingup?	Yes	No
	Miscellaneous		
	Building and Site		
	Remediation shed integrity.	Good	Poor
	Shed ventilation acceptable?	Yes	No
	Repairs/work needed?	Yes	No
		1.00	

Yes

Yes

Yes

NO

No

No

¥

Spill evidence?

Electrical and Heating

Heater operational

Electric controls operational

Miscellaneous - (Continued) Access Vaults Overall vault integrity.

Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	241.9	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Deet Carbon Comple Time		

Yes	No
	~
Monthly	Quarterly
Yes	No
	Monthiv

Recovery and Disposal			
Recovery from DNAPL Drum			
Pure DNAPL to disposal drum.	-2	Gallons	
DNAPL/water to disposal drum.		Gallons	
DNAPL/water to oil/water separator.	5	Gallons	
Recovery from Oll/Water Separator			
Pure DNAPL to disposal drum,	D	Gallons	
DNAPL/water to disposal drum.		Gallons	
Product. Carbon. Waste Storage			
DNAPL drums on-site (full and fractional)	1	Drums	
Spent carbon drums	2	Drums	
PPE/Solids drums	0	Drums	
LNAPL drums	_0_	Drums	
Drums labeled?	Yes	No	
Drums palletized?	Yes	No	
Club Vent System			
Fan Running?	des>	No	
Vac at sump enclosure? (Check Monthly)	Yes	No K	1
Notes:	1		V
Notes: Some ice in ca Secontorys, but Wery snavy, unsale, Very snavy, unsale,	noon	draws	
Some had	~ 56h	vale	
Secon stp , me		1 . 0	
in mester	no hal	top of	
-Very surgi un vaul	4		
1 main in non	,		

Site Visit Checklist/Data Sheet

Poor

Good

Sou	on longs	1-	Land	in	564
Sec	on of	1	0.	NO	Jurk
* Very	surgi .	in	Van	14	

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	Nø
Discharge control setting (departure)	2	Arrow
Refill control setting (departure)	7	Arrow
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present?	Yes Good Yes	No No Poor
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping DNAPL piping integrity. DNAPL pump cleaned?	Good Yes	Poor
DNAPL top of pump depth.	23,50	Feet

Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	N	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump Integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.60	GPM
Totalizer reading (cumulative volume).	55966.	Gallons
Water filters changed?	Yes	NO
Filter unit 1 pressure @ Arrival (In/Out)	20	7
Filter unit 2 pressure @ Arrival (In /Out)	13	6
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	4	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
Polishina carbon drum intearity.	Good	Poor
Polishing carbon drum leaks?	Yes	NO
Polishina carbon drum pressure.	(PSI
Polishing drum rotated to secondaryl?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe intearity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault Integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	748.6	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	NO
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	< No
Post Carbon Sample Time		/
Pre-Carbon Sample Time		/
Sampling event?	Monthly	Quarte
Product sampled?	Yes	No
		_
Recovery and Disposal		
Recovery and Disposal Recovery from DNAPL Drum		
	0	Gallor
Recovery from DNAPL Drum	0	
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	D 15 ⁻⁶	Gallor
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	- D 15 ⁶	Gallor
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	56	Gallor Gallor
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0	Gallor Gallor Gallor
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0 0	Gallor Gallor Gallor Gallor Gallor
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	0	Gallor Gallor Gallor
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)		Gallor Gallor Gallor
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		Gallor Gallor Gallor Gallor
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)		Gallor Gallor Gallor Gallor Drum
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	0	Gallor Gallor Gallor Gallor Drum Drum Drum
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallor Gallor Gallor Gallor Drum Drum

Ctub Vent System Fan Running? Vac at sump enclosure? (Check Monthly) Notes: # Catch boxins and effs are brind if Catch boxins and effs are brind if Catch boxins and effs are brind if Catch boxins and effs are brind boxin y or flood inj

Date:

	No
15	PSI
15	PSI
Yes	5
1	Arrow
7	Аптоw
	No
	No
	Poor
	8
Good	Poor
Goed	Poor
Good Yes	Poor
Yes	N
Yes	N
Yes 23.50	N
Yes	N
Yes 23.50 20	Feet
Yes 23.50	Feet
Yes 23.50 20	Feet No PSI
Yes 23.50 20	Feet No PSI PSI
Yes 23.50 20 20 5	Feet No PSI PSI PSI
Yes 23.50 20 20 5	Feet No PSI PSI PSI PSI
Yes 23.50 20 30 5 Yes	Feet Feet No PSI PSI PSI PSI Arrow
Yes 23.50 20 20 5	Feet Feet No PSI PSI PSI PSI Arrow
Yes 23.50 20 30 5 Yes	Feet No PSI PSI PSI PSI Arrow Arrow
	15

Oil/Water Separator

Water high level shut-off operational?	Yes
Red warning light operational?	Yes
Separator vessel integrity.	Good
Leaks present?	Yes
Separator cover and seal integrity.	Good
Decant valve integrity.	Good
LNAPL in separator?	Yes
Separator needs cleaning?	S.
Separator cleaned?	Yes
Technician: MMC	
Date: 3/13/15	

No

No

Poor

No

Poor

Poor S

No

No

Heater operational

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping	45	ž.
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	50	No
Transfer pump flow rate.	3.56	GPM
Totalizer reading (cumulative volume).	6300.9	Gallon
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	19.5	75
Filter unit 2 pressure @ Arrival (In /Out)	12	G
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Filler unit 2 pressure (a Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.		Poor
Primary carbon drum leaks?	Yes	
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	R
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	(N)
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	- (7)-
Deliables and a dama to a da		
Polishina carbon drum intearity.	Good	Poor
Polishing carbon drum leaks?	Yes	
Polishing carbon drum pressure.		PSI
Polishing drum rotated to secondaryl?	Yes	Ne
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	(Tes)	No
Pipe integrity at creek.	G	Poor
Pipe at creek clear?	Carl I	No
ribe at week clear:		INO
Miscellaneous		
Building and Site		
Remediation shed integrity.		Poor
Shed ventilation acceptable?		
		No
Repairs/work needed?	Yes	CNO
Spill evidence?	Yes	
Electrical and Heating		
Electric controls operational		No
	1	140

Yes

No

Miscellaneous - (Continued) Access Vaults Overall vault integrity 70

Overall valit integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?		No
Compressor hours.	257.7	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	NO
Compressor trap operating?	TR	No
Regulator operating?	5	No
Air lines performing properly?	000	No
Sampling	· · · · · · · · · · · · · · · · · · ·	
Sampling Performed?	Yes	TNO
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum	0	Callana

Pure DNAPL to disposal drum. Gallons DNAPL/water to disposal drum. 0 Gallons DNAPL/water to oil/water separator. 20 Gallons Recovery from Oil/Water Separator 0 Pure DNAPL to disposal drum. Gallons 0 DNAPL/water to disposal drum. Gallons Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Drums Э Spent carbon drums Drums PPE/Solids drums Drums LNAPL drums О Drums Te Drums labeled? No Drums palletized? Ye No **Club Vent System** . Fan Running? Y "No Vac at sump enclosure? (Check Monthly) Yes No" Notes: Cleaner dub Sump and OWS.

Site Visit Checklist/Data Sheet

Cand

Deen

DNAPL System		_
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	M	Arrow
DNAPL Drum		
High level shut off operational?	(Yes-	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	N
DNAPL top of pump depth.	23.50	Feet
LNAPL/Groundwater System		
Operational upon arrival?	(Ver)	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI

(10)

Arrow

Arrow

Poor No

No

No

Poor

Poor

Poor No

1

Ng

Bubbler tube operating pressure.	5
Pneumatic settings adjusted?	Yes
Discharge control setting (departure)	~
Refill control setting (departure)	1
LNAPL Pump and Piping	
LNAPL piping integrity.	Goods
LNAPL pump cleaned?	Yes
LNAPL top of pump depth.	14.40
Oil/Water Separator	
Water high level shut-off operational?	Yes
Red warning light operational?	Yes
Separator vessel integrity.	Good
Leaks present?	Yes
Separator cover and seal integrity.	Good
Decant valve integrity.	Good
LNAPL in separator?	Yes
Separator needs cleaning?	Yes
Separator cleaned?	Yes

N Technician:

Date:

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?		No
Transfer pump flow rate.	3.40	GPM
Totalizer reading (cumulative volume).	11778.2	Gallons
Water filters changed?	Yes	NO
Filter unit 1 pressure @ Arrival (In/Out)	20	9
Filter unit 2 pressure @ Arrival (In /Out)	14	8
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Gee	Poor
Primary carbon drum leaks?	Yes	
Primary carbon drum pressure.	C I	PSI
Primary drum removed for disposal?	Van	No
Primary drum removed for disposal?	Yes	Nor
Occurrent and the state with	6000	Deer
Secondary carbon drum integrity.		Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.		PSI
Secondary carbon rotated to primary?	Yes	100
-	GE	
Polishina carbon drum intearity.	Goed	Poor
Polishing carbon drum leaks?	Yes	NZ
Polishing carbon drum pressure.		PSI
Polishing drum rotated to secondaryl?	Yes	
New carbon polishing drum?	Yes	"və
Discharge Piping		
Pipe intearity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Vest	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	(Yes)	No
841		
Miscellaneous		
Building and Site		
Remediation shed Integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	Ø
Spill evidence?	Yes	16
Electrical and Heating		
Electric controls operational	(IS)	No
Heater operational	Yee	No

Gee	Poor
Yes	(P)
6	PSI
Yes	No

Good	Poor
Yes	No
35	PSI
Vee	N

Good	Poor
Good	Poor
Vest	No
Good	Poor
(Yes)	No

Good	Poor
Yes	No
Yes	6
Yes	KG

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Godd	Poor
Repairs needed to vaults?	Yes	<u>(10</u>
Air Compressor		
Compressor operational?	Yas	No
Compressor hours.	264.9	Hours
Oil level checked?	<u>vei</u>	No
Oil level changed?	Yes	61
Compressor trap operating?		No
Regulator operating?		No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	6	No
Post Carbon Sample Time	12.30	
Pre-Carbon Sample Time	1245	
	Monthiv	Quartert
Sampling event?		Quarteriv
Sampling event? Product sampled?	Yes	
Product sampled? Recovery and Disposal		
Product sampled? Recovery and Disposal Recovery from DNAPL Drum		
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.		Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator		Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage		Gallons Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Gallons Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Gallons Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums No
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized? Club Vent System		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums No No
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Pure DNAPL to disposal drum. DNAPL/water to disposal drum. PNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums No

DNAPL System	0	
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	(NO)
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	R	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	(3)	No
DNAPL drum container integrity.	(Good)	Poor
Leaks present?	Yes	Ð
Decant valve integrity.	Good	600
	\bigcirc	p
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	A
DNAPL top of pump depth.	2350	Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20,	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	A	Апоw
Refill control setting (departure)	2	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	
LNAPL top of pump depth.	1440	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	9
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No.
Separator needs cleaning?	Yes	D
Separator cleaned?	Yes	1
Technician: <u>MC VCessor</u> Date: 3(25/18		

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?		No
Pump integrity.	Gool	Poor
Flow meter operational?	L Ces	No
Transfer pump flow rate.	3:44	GPM
Totalizer reading (cumulative volume).	84327.8	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	20	8.5
Filter unit 2 pressure @ Arrival (In /Out)	13	7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primarv carbon drum leaks?	Yes	10
Primary carbon drum pressure.	5	PSI
Primarv drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	
Secondary carbon drum pressure.	3	PSL
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor

Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	CYCC	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	(Yes')	No

Yes

Yes

Yes

No

PSI

Building and Site		
Remediation shed integrity.	Goola	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	Nd
Spili evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Vest	No

Miscellaneous - (Continued)		
Access Vaults		B
Overall vault integrity.	- COOP	Poor
Repairs needed to vaults?	Yes	
Air Compressor		
Compressor operational?	400	No
Compressor hours.	274.7	Hours
Oil level checked?	100	No
Oil level changed?	Yes	<u>N</u>
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
		<u></u>
Sampling		
Sampling Performed?	Yes	(Nor)
Post Carbon Sample Time		Y
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	0	Gallons
Recovery from DNAPL Drum	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.		Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator		Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	20	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	20	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	20	Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	20	Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	20	Gallons Gallons Gallons Gallons Drums Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	20	Gallons Gallons Gallons Gallons Drums Drums Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums		Gallons Gallons Gallons Gallons Drums Drums Drums Drums Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Gallons Gallons Gallons Gallons Drums Drums Drums Drums No
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storace DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?		Gallons Gallons Gallons Gallons Drums Drums Drums Drums Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL water to disposal drum. Product, Carbon, Waste Storace DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized? Club Vent System		Gallons Gallons Gallons Drums Drums Drums No No
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storace DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?		Gallons Gallons Gallons Gallons Drums Drums Drums Drums No

Decant valve integrity.

LNAPL in separator?

Separator cleaned?

Technician:

Date:

Separator needs cleaning?

-

_			
ľ	DNAPL System		
ľ	Operational upon arrival?	Yes	No
	DNAPL pump pressure (arrival)	15	PSI
1	DNAPL pump pressure (departure)	15	PSI
H	Pneumatic settings adjusted?	Yes	No
ľ	Discharge control setting (departure)	1	Arrow
li	Refill control setting (departure)	7	Arrow
	The submitty in 1999 Sector Constrained • Co		
l	DNAPL Drum	_	
I	High level shut off operational?	(Yes)	No
	Green warning light operational?	Yes	No
	DNAPL drum container integrity.	Good	Poor
	Leaks present?	Yes	No
	Decant valve integrity.	Good	Poor
Į			
l	DNAPL Pump and Piping		
	DNAPL piping integrity.	Good	Poor
	DNAPL pump cleaned?	Yes	NO
l	DNAPL top of pump depth.	2350	Feet
Ľ			
5	2		
	LNAPL/Groundwater System		
	Operational upon arrival?	<u>Ve</u>	No
		(Yes) 70	No PSI
	Operational upon arrival?	Ves' 70 70	
	Operational upon arrival? LNAPL pump pressure (arrival)	20 20 5	PSI PSI PSI
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure)	32 2 5 EE	PSI PSI
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure.	A CLE	PSI PSI PSI
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted?	N N N E	PSI PSI PSI
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure)	Carlo Carlos	PSI PSI PSI Arrow
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i>	2 2 5 B N X	PSI PSI PSI Arrow Arrow
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <u>LNAPL Pump and Piping</u> LNAPL piping integrity.	20 20 5 5 8 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PSI PSI NG Arrow Arrow
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <u>LNAPL Pump and Piping</u> LNAPL piping integrity. LNAPL pump cleaned?	Ze Ze See N	PSI PSI PSI Arrow Arrow
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <u>LNAPL Pump and Piping</u> LNAPL piping integrity.	20 20 5 5 8 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PSI PSI NØ Arrow Arrow
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.	Ze Ze See N	PSI PSI PSI Arrow Arrow Poor
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. Oil/Water Separator	20 5 0 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8 7 8 8 7 8 8 7 8	PSI PSI Arrow Arrow Poor Feet
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. Oil/Water Separator Water high level shut-off operational?	70 5 6 7 7 7 8 7 7 8 7 7 8 7 7 8 8 7 7 8 8 7 7 8 8 7 7 8 8 7 8 8 7 8 8 7 8 8 8 7 8 7 8 8 8 7 8	PSI PSI PSI Arrow Arrow Arrow Feet
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. Oil/Water Separator Water high level shut-off operational? Red warning light operational?	20 20 5 0 5 0 5 0 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1	PSI PSI PSI Arrow Arrow Poor Feet No No
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. Oil/Water Separator Water high level shut-off operational? Red warning light operational? Separator vessel integrity.	20 20 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7	PSI PSI PSI Arrow Arrow Arrow Feet No No Poor
	Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. Oil/Water Separator Water high level shut-off operational? Red warning light operational?	20 20 5 0 5 0 5 0 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1	PSI PSI PSI Arrow Arrow Poor Feet No No

Good

Yes

Yes *

Yes

Poor No

No

NO

Table 4-1

	termine the second s	
LNAPL/Groundwater System - (Continued)		
Transfer Pump and PipIng		
Pump operational?	185	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	98166.	GPM
Totalizer reading (cumulative volume).	33.9	Galions
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	20	805
Filter unit 2 pressure @ Arrival (In /Out)	13	~
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum Integrity.	Good	Poor
Primary carbon drum leaks?	Yes	NO
Primary carbon drum pressure.	2	PSI

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure.

Primary drum removed for disposal?

Secondary carbon rotated to primary? Polishing carbon drum integrity. Polishing carbon drum leaks?

Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		_
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	NO
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Ves	No
Heater operational	Yes	No

		-
Access Vaults		
Overall vault integrity.	Good	Po
Repairs needed to vaults?	Yes	IN
Air Compressor		
Compressor operational?	Yes	N
Compressor hours.	283.1	Ho
Oil level checked?	Yes	N
Oil level changed?	Yes	(N
Compressor trap operating?	Yes	N
Regulator operating?	Yes	N
Air lines performing properly?	(Es	N

Sampling		
Sampling Performed?	Yes	(No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recoverv from DNAPL Drum		
Pure DNAPL to disposal drum.	-	Gallons
DNAPL/water to disposal drum.	-	Gallons
DNAPL/water to oil/water separator.	-5	Gallons
Recoverv from Oil/Water Separator		
Pure DNAPL to disposal drum.	-	Gallons
DNAPL/water to disposal drum.	-	Gallons
Product, Carbon, Waste Storage		
Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)	1	Drums
DNAPL drums on-site (full and fractional)	2	Drums Drums
DNAPL drums on-site (full and fractional)	2	
DNAPL drums on-site (full and fractional) Spent carbon drums	/ 2 /	Drums
DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	1	Drums Drums

Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No.

Notes:

No

Poor No

PSI No

Poor No

PSI

N

No

Yes

Good

Yes 3

Yes

Good

Yes

Yes

Yes

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	4	Arrow
Refill control setting (departure)	7	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	Ro
DNAPL top of pump depth.	24.50	Feet

Operational upon arrival?	Ver	No
LNAPL pump pressure (arrival)	70	PSI
	- Cho	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	- Vie	
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	¥	Arrow
		÷
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14/2/0	Feet
<u>Oil/Water Separator</u>		
	(Yes)	No
Water high level shut-off operational?		110
Red warning light operational?	Tes	No
	Good	
Red warning light operational?	the second se	No
Red warning light operational? Separator vessel integrity.	Good	No Poor
Red warning light operational? Separator vessel integrity. Leaks present?	Good [®] Yes	No Poor
Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity.	Good Yes Good	No Poor No Poor
Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity.	Good Yes Good Good	No Poor No Poor Poor
Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator?	Yes Yes Good Yes	No Poor Poor Poor Poor

Table 4-1

ſ	LNAPL/Groundwater System - (Continued)		
ĺ	Transfer Pump and Piping		
	Pump operational?	(es)	No
	Pump integrity.	Good	Poor
l	Flow meter operational?	Kesi	No
	Transfer pump flow rate.	3.09	GPM
	Totalizer reading (cumulative volume).	10:597	Gallons
l	Water filters changed?	Yes	NO
l	Filter unit 1 pressure @ Arrival (In/Out)	20	9
ĺ	Filter unit 2 pressure @ Arrival (In /Out)	12	8
l	Filter unit 1 pressure @ Departure (In/Out)		
l	Filter unit 2 pressure @ Departure		
l			
Į	Carbon Treatment Drums		
ĺ	Primary carbon drum integrity.	Good	Poor
l	Primary carbon drum leaks?	Yes	No
	Primary carbon drum pressure.	6	PSI
	Primary drum removed for disposal?	Yes	Na
	Secondary carbon drum integrity.	Good	Poor
	Secondary carbon drum leaks?	Yes	No
	Secondary carbon drum pressure.	4	PSI
	Secondary carbon rotated to primary?	Yes	(No
Į	[1] L. K. L. H. PERKUM, MINNER Data AND ADDRESS 42, 121 (1998) 1004.		
i	Polishing carbon drum integrity.	Good	Poor
	Polishing carbon drum leaks?	Yes	
	Polishing carbon drum pressure.		PSI
	Polishing drum rotated to secondaryl?	Yes	(No
	New carbon polishing drum?	Yes	NO
	Discharge Piping		
	Pipe intearity in shed.	Good	Poor
	Pipe integrity at catch basin.	Good	Poor

New carbon polishing drum?	Yes	NO
Distance Biston		
Discharae Pipina		
Pipe intearity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Tes	No

Miscellaneous		
Building and Site Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	0
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

		Miscellaneous - (Continued)
		Access Vaults
res	No	Overall vault integrity.
Good	Poor	Repairs needed to vaults?
Vesi	No	
.09	GPM	Air Compressor
05597	Gallons	Compressor operational?
Yes	No	Compressor hours.
20	9-	Oil level checked?
2	8	Oil level changed?
		Compressor trap operating?
		Regulator operating?

Good	Poor
Yes	No
6	PSI
Yes	Na
	0
Good	Poor
Yes	No
4	PSI
Yes	(No

Good	Poor
Yes	
1	PSI
Yes	(No
Yes	NO

Good	Poor
Good	Poor
Yes	No
Good	Poor
(es/	No

	JIICOMIDO	Jula Onec	•
neous - (Continued	i)		
Vaults vault integrity. needed to vaults?	Kaup Vault bbdud	Good	Poor
pressor ssor operational?	pland	fes	No
sor hours.		290.3	Hours
checked?		est	No
changed?		Yes	600

Yes

Nes

Tes

No

No

No

Site Visit Checklist/Data Sheet

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthla	Quarterly
Product sampled?	Yes	No

Air lines performing property?

Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	6	Gallons
DNAPL/water to oil/water separator.	_ 5	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	(es)	No
Drums palletized?	Tes	No

I	Fan Running?	- F
l	Vac at sump enclosure? (Check Monthly)	



barrier and op of my pusted world (wooden gauand rad pusted over)

Yes

No

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	NO
Discharge control setting (departure)	ĩ	Arrow
Refill control setting (departure)	#	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	AND
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	2350	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20.	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	Nø
Discharge control setting (departure)	~	Arrow
Refill control setting (departure)	~	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	1443	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	N2
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

Technician:_

Date:

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	Noll
Transfer pump flow rate.	2.81	GPM
Totalizer reading (cumulative volume).	117106	Gallons
Water filters changed?	Yes	
Filter unit 1 pressure @ Arrival (In/Out)	18	8
Filter unit 2 pressure @ Arrival (In /Out)	12	2
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		

Good

Yes

Yes

Good

Yes

Yes

Yes

Yes

Yes

Poor

PSI

No

Poor

PSI

Poor

NO

PSI

No

Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary drum removed for disposal?

Secondarv carbon drum intearity. Secondarv carbon drum leaks? Secondarv carbon drum pressure. Secondarv carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondary!? New carbon polishing drum?

Discharge Piping		
Pipe intearity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Plpe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Good	Poor
Yes	No
Yes	- Ko
Yes	No
	Yes

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	300.3	Hours
Oil level checked?	(es)	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	Tes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		ľ
Sampling Performed?	Yes	No
Post Carbon Sample Time	OULO	
Pre-Carbon Sample Time	0830	
Sampling event?	Monitiv	Quarterly
Product sampled?	Yes	TNo
Recovery and Disposal		1
Recovery and Disposal Recovery from DNAPL Drum		
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.	~	Gallons
Recoverv from DNAPL Drum		Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum.		Gallons
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	5	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	5	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	5	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	5	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	5	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage		Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums Drums Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	2	Gallons Gallons Gallons Gallons Drums Drums Drums Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Gallons Gallons Gallons Gallons Drums Drums Drums Drums Drums No
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?		Gallons Gallons Gallons Gallons Drums Drums Drums Drums Drums No

Notes:

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	75	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	NO
Discharge control setting (departure)	x	Arrow
Refill control setting (departure)	7	Arrow
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present?	Yes Good Yes	No No Poor
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	NO
DNAPL top of pump depth.	2350	Feet

Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	72	Агтоw
Refill control setting (departure)	52	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	1447	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	res	No
Red warning light operational?	Xes?	No
Separator vessel integrity.	GOOD	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	NO
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Tes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	128690	GPM
Totalizer reading (cumulative volume).	301	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	17	8
Filter unit 2 pressure @ Arrival (In /Out)	13	7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primarv carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5.5	PSI
Primarv drum removed for disposal?	Yes	No

Secondary carbon drum intearity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Pipina	
rity in shed. Goo	Poor
rity at catch basin.	Poor
atch basin clear?	No
arity at creek. Goo	Poor
reek clear?	No

Remediation shed integrity.		
	Good	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No

Tes	No
Good	Poor
Yes	No
128690	GPM
301	Gallons
Yes	No
17	8
13	7

Good	Poor
Yes	No
5.5	PSI
Yes	No
Good	Poor

Good	Poor
Yes	No
n	PSI
Yes	Na

Good	Poor
Yes	No
1	PSI
Yes	No
Yes	No

Good	Poor
Good	Poor
Yes	No
Good	Poor
Yes	No

Good	Poor
Yes	No
Yes	No
Yes	No
	Hours
Yes	No
Yes	No
Tes	No
Yes	No
	Yes Yes Yes

Site Visit Checklist/Data Sheet

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Air lines performing properly?

Yeş

No

Recovery and Disposal		
Recoverv from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	5	Gallons
Recoverv from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	_0_	Gallons
Product, Carbon. Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	_ /	Drums
LNAPL drums		Drums
		NI-
Drums labeled?	les	NoNo

Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

ć · · · · · · · · · · · · · · · · · · ·		
DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	13.	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	Ng
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	Ŧ	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	
Decant valve integrity.	6000	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	D
DNAPL top of pump depth.	23,50	Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No

Operational upon arrival?	Yes	
LNAPL pump pressure (arrival)	20	
LNAPL pump pressure (departure)	70	
Bubbler tube operating pressure.	5	
Pneumatic settings adjusted?	Yes	
Discharge control setting (departure)	7	
Refill control setting (departure)	N	
LNAPL Pump and Piping		
LNAPL piping integrity.	Seed	
LNAPL pump cleaned?	Yes	
LNAPL top of pump depth.	14,40	
Oil/Water Separator	2	
Water high level shut-off operational?	Yes	
Red warning light operational?	(Yes)	
Separator vessel integrity.	(Good)	
Leaks present?	Yes	
Separator cover and seal integrity.	Good	
Decant valve integrity,	Good	
		-

Table 4-1

PSI

PSI

PSI

No

Arrow

Arrow

Poor

No

Feet

No

No

Poor)

Poor

Poor

0

NO

No

Yes

Yes

Yes

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	G	No
Pump intearity.	Good	Poor
Flow meter operational?	(es	No
Transfer pump flow rate.	287	GPM
Totalizer reading (cumulative volume).	136857	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	18	$\frac{\gamma}{\gamma}$
Filter unit 2 pressure @ Arrival (In /Out)	13	7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primarv carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	(10)
Primary carbon drum pressure.	5.5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	NO
Secondary carbon drum pressure,	3.5	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good 2	Poor
Polishing carbon drum leaks?	Yes	NO
Polishing carbon drum pressure.	7	PSI
Polishing drum rotated to secondaryl?	Yes	NO
New carbon polishing drum?	Yes	(No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
L TINS AL VIDON, VIDALI	<u> </u>	
Miscellaneous		
Building and Site	200-000 e	
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Kap	No
Repairs/work needed?	Yes	TWO IND
Spill evidence?	Yes	NO
Spill evidence?	Yes 1	
Electrical and Heating		100.00
Electric controls operational	Yes	No
Heater operational	()s	No

Ces	No	
6.68	Poor	
fes	No	
287	GPM	1
36857	Gallons	
Yes	No	
18	7	
13	7	
(Good)	Poor	1
Yes	(16)	

Yes	Moor (No)
5.5	PSI
Yes	No

Good	Poor
Yes	NO
3.5	PSI
Yes	No

Compressor trap operating?	Yes	No
Regulator operating?	(Yes)	No
Air lines performing properly?	Yes	No
-		
Sampling		
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		y
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oll/water separator.	$\Box o$	Gallons
Recoverv from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product. Carbon. Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	2	Drums
PPE/Solids drums		Drums
LNAPL drums	-	Drums
Drums labeled?	(Yes)	No
Drums palletized?	Xes	No

Drums palletized?	Xes	No
Club Vent System		
Fan Running?	(R)	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

Site Visit Checklist/Data Sheet

Good

Yes

Yes

326.2

Yes

Yes

Poor

NO

No

Hours

No

No

Miscellaneous - (Continued)

Access Vaults

Air Compressor

Compressor hours.

Oil level checked?

Oil level changed?

Overall vault integrity.

Repairs needed to vaults?

Compressor operational?

-	
Technic	a
Date:	

LNAPL in separator?

Separator cleaned?

Separator needs cleaning?

DNAPL System	N.	
Operational upon arrival?	tes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Апоw
Refill control setting (departure)	1ª	Аптоw
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	NO
DNAPL top of pump depth.	23,50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	S	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	Ja I	Arrow
Refill control setting (departure)	2	Аптоw
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(NO)
LNAPL top of pump depth.	14.4	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Y)	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	NO
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	NO

00

6

Yes

Yes

LNAPL in separator? Separator needs cleaning? Separator cleaned?

5

Technician:

Date:

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	New	No
Pump integrity.	Good	Poor
Flow meter operational?		No
Transfer pump flow rate.	2.94	, GPM
Totalizer reading (cumulative volume).	140844	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)		8
Filter unit 2 pressure @ Arrival (In /Out)	15	-
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Goods	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	NO
Secondary carbon drum pressure	3	DSI

Secondary carbon drum pressure. Secondary carbon rotated to primary?

Pollshing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good)	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Yes

Good

Yes

Yes

Yes

No

Poor

No

PSI

No

No

Torvori

Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Spill evidence?	Yes	(
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yès	No
Compressor hours.	335.1	Hours
Oil level checked?	Yes	No
Oll level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing property?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		1 D
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarter
Sampling event:	INCLUTE	Guarter
Product sampled?	Yes	NoNo
Recovery and Disposal	Yes	<u>No</u>
Recovery and Disposal Recovery from DNAPL Drum	Yes	
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	8	Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.	Yes 	Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	20	Gallon Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	8	Gallon Gallon Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	20	Gallon Gallon Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	20	Gallon Gallon Gallon Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)	20	Gallon Gallon Gallon Gallon Gallon Drum
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	20	Gallon Gallon Gallon Gallon Gallon Drum
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	20	Gallon Gallon Gallon Gallon Gallon Drum Drum
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums		Gallon Gallon Gallon Gallon Gallon Drum Drum
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?	20	Gallon Gallon Gallon Gallon Gallon Drum Drum
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums		Gallon Gallon Gallor Gallor Gallor Drum Drum Drum
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storace DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums palletized? Club Vent System		Gallon Gallon Gallon Gallon Gallon Drum Drum Drum No
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Pure DNAPL to disposal drum. PNAPL/water to disposal drum. PNAPL/solids drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?		Gallon Gallon Gallon Gallon Gallon Drums Drums Drums Drums No

	and the second second	
DNAPL System	~	
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	NO
Discharge control setting (departure)	~~	Arrow
Refill control setting (departure)	r	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		101
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	2350	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	Nø
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	>	Апоw
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No

No

Yes

Technician: MV

513/15

Separator cleaned?

Date:

Table 4-1

LNAPL/Groundwater System - (Continued)		100
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump Integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	285	GPM
Totalizer reading (cumulative volume).	144916	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	20	8
Filter unit 2 pressure @ Arrival (In /Out)	15	8
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	_ 5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum Integrity.	Good	Poor
		1.00

Yes

3

Yes

Yes

Yes

Yes

No

PSI

No

Poor

No

PSI

No

No

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondary!? New carbon polishing drum?

Discharae Pipina		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin,	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Floating and Hosting		
Electrical and Heating		

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	341.0	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	(Yes)	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		Y.
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recoverv from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oll/water separator.	10	Gallons
Recovery from Oll/Water Separator		
Pure DNAPL to disposal drum.	$\underline{\mathcal{O}}$	Gallons
DNAPL/water to disposal drum.		Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums		Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Deume nelletized?	Nac	N

Drums palletized :	res	INO
Club Vent System	0	
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes 2	No

Notes:

ZHealus off

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	¥	Arrow
DNAPL Drum High level shut off operational? Green warning light operational?	Yes) Yesy	No No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	NO
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	22	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	25	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	NO
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

520/15

Date:

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes?	No
Pump integrity.	Good	Poor
Flow meter operational?	res	No
Transfer pump flow rate.	2.94	GPM
Totalizer reading (cumulative volume).	148747	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	18	6
Filter unit 2 pressure @ Arrival (In /Out)	12	6
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primarv carbon drum pressure.	5	PSI
Primarv drum removed for disposal?	Yes	No
Secondary carbon drum intearity.	Good	Poor
Secondary carbon drum leaks?	Yes	No.
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor

Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondary? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Yes

Yes

Yes

No PSI

No

No

Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	APC Yes	No
Heater operational	Yes	No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	348.1	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		T
Sampling Performed?	Yes	No
Post Carbon Sample Time	(300	
Pre-Carbon Sample Time	1400	
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	NO
Recovery and Disposal		
Recoverv from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	D	Gailons
DNAPL/water to oil/water separator.	20	Gallons
Recoverv from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	_0	Gallons
Product, Carbon, Waste Storage		
DNADI drump on site (full and fractional)	1	Denne

Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	(Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1	Drums
LNAPL, drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	15.	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	*	Arrow
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity.	Yes (Yes) (Good	No No Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	14.40	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	~	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	NO
LNAPL top of pump depth.	23.50	Feet

1

No

No

Poor

No

Poor

Poor

(No

No

No

Oil/Water Separator	
Water high level shut-off operational?	Yes
Red warning light operational?	Yes
Separator vessel integrity.	Good
Leaks present?	Yes
Separator cover and seal integrity.	Good
Decant valve integrity.	Good
LNAPL in separator?	Yes
Separator needs cleaning?	Yes
Separator cleaned?	Yes
100,11-1	

Technician: 51 129

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Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3,57	GPM
Totalizer reading (cumulative volume).	151723	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	18	9
Filter unit 2 pressure @ Arrival (In /Out)	15	8
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primarv carbon drum pressure.	G	PSI
Primarv drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondarv carbon drum leaks?	Yes	NO

4

Yes

Good

Yes

Yes

Yes

PSI

No

Poor

No

PSI

No

Na

Sec Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondary? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Good	Poor
Yes	No
Yes	No
Yes	No
	Yes

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	357.7	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		\sim
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterty
Product sampled?	Yes	No

Recoverv from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product. Carbon. Waste Storage		
DNAPL drums on-site (full and fractional)	7	Drums
Spent carbon drums	2	Drums
		Drums
PPE/Solids drums		
	0	Drums
LNAPL drums	0 Yes	Drums No
LNAPL drums Drums labeled?		20103
LNAPL drums Drums labeled? Drums palletized?		No
PPE/Solids drums LNAPL drums Drums labeled? Drums palletized? Club Vent System Fan Running?		

Notes:

325

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	A	Arrow
Refill control setting (departure)	7	Arrow
	<u> </u>	
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
		•
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	65	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	se al	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	NO
LNAPL top of pump depth.	14.40	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor

Yes

Yes

Yes

No

No

No

Heater operational

LNAPL in separator?

Separator cleaned?

Technician:

Date:

Separator needs cleaning?

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Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.11	GPM
Totalizer reading (cumulative volume).	161317	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	19	C.5
Filter unit 2 pressure @ Arrival (In /Out)	12	7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		í
	L	
Carbon Treatment Drums		
Primary carbon drum Integrity.	Good	Poor
Primarv carbon drum leaks?	Yes	No
Primarv carbon drum pressure.	5.5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3.5	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary!?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping Pipe Integrity in shed.		
	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?		
Repairs/work needed?	Yes?	No
	Yes	No
Spill evidence?	Yes	No2
Electrical and Heating		
Electric controls operational	Yes	No
Electric controls oberational	162	NO

Yes

GFE

No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)	
Access Vaults	
Overall vault integrity.	Good Poor
Repairs needed to vaults?	Yes
	U
Air Compressor	
Compressor operational?	Yes No
Compressor hours.	364.Z Hours
Oil level checked?	No No
Oil level changed?	Yes No
Compressor trap operating?	Yes No Ch
Regulator operating?	No No
Air lines performing properly?	Yès No
Sampling	
Sampling Performed?	Yes
Post Carbon Sample Time	
Pre-Carbon Sample Time	
Sampling event?	Monthly Quarterly
Product sampled?	Yes No
Recovery and Disposal	
Recoverv from DNAPL Drum	
Pure DNAPL to disposal drum.	C Gallons
DNAPL/water to disposal drum.	O Gallons
DNAPL/water to oil/water separator.	2 Gallops

DNAPL/water to oll/water separator. Gallons Recovery from Oil/Water Separator Pure DNAPL to disposal drum. 0 Gallons 0 DNAPL/water to disposal drum. Gallons Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Drums Spent carbon drums Drums PPE/Solids drums Drums LNAPL drums 0 Drums Drums labeled? Yes No Drums palletized? Yes No **Club Vent System** Fan Running? Yes No Vac at sump enclosure? (Check Monthly) Yes No

Notes: No access to all today

		-
DNAPL System	\sim	
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	1Xm	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	4	Arrow
Refill control setting (departure)	7	Arrow
DNAPL Drum High level shut off operational? Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Gooj	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	13.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20.	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	7	Аптоw
Refill control setting (departure)	21	Аптоw
LNAPL Pump and Piping	-	
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	(No
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Goog	Poor
Leaks present?	VV	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	NO
	Yes	NO

Date:

2

Table 4-1

Transfer Pump and Piping		
Pump operational?	Yes?	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	337	GPM
Totalizer reading (cumulative volume).	171158	anno con
Water filters changed?	Yes	
Filter unit 1 pressure @ Arrival (In/Out)	20	CNO
Filter unit 2 pressure @ Arrival (In /Out)	13	~
Filter unit 1 pressure @ Departure (In/Out)		0
Filter unit 2 pressure @ Departure		**
-		.
Carbon Treatment Drums		0
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	<u>(No)</u>
Primary carbon drum pressure.		. PSI
Primary drum removed for disposal?	Yes	
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	(N
Secondary carbon drum pressure.	3.5	PSI
Secondary carbon rotated to primary?	Yes	- ND
Polishing carbon drum integrity.	Goed	Poor
Polishing carbon drum leaks?	Yes	1001
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	- NO
New carbon polishing drum?	Yes	
Discharge Piping Pipe integrity in shed.		
	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?		No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		12 T. S.
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	(Yes)	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	NO
Electrical and Heating		
	Yes	No
Heater operational	Yes)	No

<u>No</u>	Sampling
PSI No	Sampling Performed? Post Carbon Sample Time
Poor	Pre-Carbon Sample Time Sampling event? Product sampled?
PSI	I Traduct complete.

Miscellaneous - (Continued)

Access Vaults

Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	5	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product. Carbon. Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	2	Drums
PPE/Solids drums		Drums
LNAPL drums	0	Drums
Drums labeled?	(Yes)	No
Drums palletized?	©⁄	No
Club Vent System		
Fan Running?	(res)	No

Site Visit Checklist/Data Sheet

Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	10
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	373	Hours
Oil level checked?	(Yes	No No
Oil level changed?	Vai	No
Compressor trap operating?	(Yes)	No
Regulator operating?	Yes	No
Air lines performing properly?	(es)	No
Sampling		
Sampling Performed?	Yes	NO
Post Carbon Sample Time		7
Pre-Carbon Sample Time		
Sampling event?	Monthiv	Quarterly
Product sampled?		
	Yes	No
	<u>Yes</u>	No
Recovery and Disposal	<u>Yes</u>	No
Recovery and Disposal Recovery from DNAPL Drum	Yes	No
Recovery from DNAPL Drum		Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	Ves O O S	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	Ves 0 0 5	Gallons

Notes:

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DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	t	Arrow
Refill control setting (departure)	8	Arrow
DNAPL Drum High level shut off operational? Green warning light operational?	Yes	No No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	23.50	Feet

		-
LNAPL/Groundwater System		
Operational upon arrival?	Ves	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	Ng
Discharge control setting (departure)	~	Arrow
Refill control setting (departure)	21	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	1442	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	NO
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	NO

17

Yes

NO

Separator cleaned? Technician:

Date:

Table 4-1

	LNAPL/Groundwater System - (Continued)		
	Transfer Pump and Piping		
	Pump operational?	Yes	No
	Pump intearity.	Good	Poor
	Flow meter operational?	Yes	No
	Transfer pump flow rate.	3.03	GPM
	Totalizer reading (cumulative volume).	178519	Gallons
	Water filters changed?	Yes	No
	Filter unit 1 pressure @ Arrival (In/Out)	20	2
	Filter unit 2 pressure @ Arrival (In /Out)	13	8
	Filter unit 1 pressure @ Departure (In/Out)		
	Filter unit 2 pressure @ Departure		
	Carbon Treatment Drums		_
	Primary carbon drum integrity.	(Good)	Poor
	Primary carbon drum leaks?	Yes	NO
	Primary carbon drum pressure.	C	PSI
	Primary drum removed for disposal?	Yes	No
	Secondary carbon drum integrity.	Good	Poor
l	One and any and any dama la la la 0	Ver	60

Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping		_
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		
Building and Site		
Remediation shed intearity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Yes	No
Good	Poor
Yes	No
3.03	GPM
178519	Gallons
Yes	No
20	8
13	8

Good	Poor
Yes	No
C	PSI
Yes	No

Good	Poor
Yes	No
4	PSI
Yes	No

Good	Poor
Yes	No
1	PSI
Yes	No
Yes	No

Good>	Poor
Good	Poor
Yes	No
Good	Poor
Yes	No

Access Vaults Overall vault integrity. Good Poo	
Overall vault integrity. Good Poo	
	r
Repairs needed to vaults? Yes No	2
Air Compressor	
Compressor operational? Ves No	
Compressor hours. <u>374.1 Hour</u>	s
Oil level checked? No	
Oil level changed?	2
Compressor trap operating? No	_
Regulator operating? No	
Air lines performing properly? Yes No	
Sampling	i
Sampling Performed? No	
Post Carbon Sample Time (350	
Pre-Carbon Sample Time	
Sampling event? Quarter	eriv
)
Product sampled? Yes No	
Product sampled?	
Product sampled? Yes No Recovery and Disposal	
Product sampled? Yes No Recovery and Disposal Recovery from DNAPL Drum	ins
Product sampled? Yes Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.	ns
Product sampled? Yes Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	ns
Product sampled? Yes Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	ns
Product sampled? Yes Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator.	ins ins ins
Product sampled? Yes Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Secovery from Oll/Water Separator	ins ins ins ins
Product sampled? Yes Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Since Covery from Oil/Water Separator Pure DNAPL to disposal drum. O Gallo Covery from Oil/Water Separator Pure DNAPL to disposal drum.	ins ins ins ins
Product sampled? Yes Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Since Covery from Oil/Water Separator Pure DNAPL to disposal drum. O Gallo Covery from Oil/Water Separator Pure DNAPL to disposal drum.	ins ins ins ins
Product sampled? Yes Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to oll/water separator. Pure DNAPL to disposal drum. DNAPL/water to disposal drum. O Gallo O Gallo	ins ins ins ins ins
Product sampled? Yes Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oll/water separator. Secovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to oll/water separator Pure DNAPL to disposal drum. O Gallo Recovery from Oil/Water Separator Pure DNAPL to disposal drum. O Gallo Product. Carbon, Waste Storage	ins ins ins ins ins ins
Product sampled? Yes No Recovery and Disposal Recovery from DNAPL Drum Quarter Secondary Pure DNAPL to disposal drum. Quarter Secondary Quarter Secondary DNAPL/water to oll/water secondary Quarter Secondary Quarter Secondary Recovery from Oil/Water Secondary Quarter Secondary Quarter Secondary Pure DNAPL to disposal drum. Quarter Secondary Quarter Secondary Pure DNAPL to disposal drum. Quarter Secondary Quarter Secondary Pure DNAPL to disposal drum. Quarter Secondary Quarter Secondary Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) 1	INS INS INS INS INS INS
Product sampled? Yes No Recovery and Disposal Recovery from DNAPL Drum Q Gallo Pure DNAPL to disposal drum. Q Gallo DNAPL/water to disposal drum. Q Gallo DNAPL/water to oll/water separator. S Gallo Recovery from Oil/Water Separator Gallo Gallo Pure DNAPL to disposal drum. Q Gallo DNAPL/water to oll/water Separator Gallo Gallo Pure DNAPL to disposal drum. Q Gallo DNAPL/water to disposal drum. Q Gallo DNAPL water to disposal drum. Q Gallo DNAPL water to disposal drum. Q Gallo DNAPL drums on-site (full and fractional) 1 Drum Spent carbon drums Q Drum	Ins Ins Ins Ins Ins Ins Ins Ins
Product sampled? Yes No Recovery and Disposal Recovery from DNAPL Drum Q Gallo Pure DNAPL to disposal drum. Q Gallo DNAPL/water to disposal drum. Q Gallo DNAPL/water to oll/water separator. S Gallo Pure DNAPL to disposal drum. Q Gallo DNAPL/water to oll/Water Separator. S Gallo Pure DNAPL to disposal drum. Q Gallo Product. Carbon. Waste Storage Q Drum DNAPL drums on-site (full and fractional) 1 Drum Spent carbon drums Q Drum PPE/Solids drums Q Drum	Ins Ins Ins Ins Ins Ins Ins Ins Ins Ins
Product sampled? Yes No Recovery and Disposal Recovery from DNAPL Drum Q Gallo Pure DNAPL to disposal drum. Q Gallo DNAPL/water to disposal drum. Q Gallo DNAPL/water to oll/water separator. S Gallo Recovery from Oil/Water Separator. S Gallo Pure DNAPL to disposal drum. Q Gallo DNAPL/water to oll/Water Separator Gallo Gallo Pure DNAPL to disposal drum. Q Gallo DNAPL/water to disposal drum. Q Gallo DNAPL water to disposal drum. Q Gallo DNAPL water to disposal drum. Q Gallo Product. Carbon. Waste Storace Image: Carbon drums Image: Carbon drums PPE/Solids drums Image: Carbon drums Image: Carbon drums Drums Image: Carbon drums Image: Carbon drums	ns ns ns ns ns ns ns ns ns
Product sampled? Yes No Recovery and Disposal Recovery from DNAPL Drum Gallo Pure DNAPL to disposal drum. O Gallo DNAPL/water to disposal drum. O Gallo DNAPL/water to oll/water separator. S Gallo Pure DNAPL to disposal drum. O Gallo DNAPL/water to oll/water separator. S Gallo Pure DNAPL to disposal drum. O Gallo DNAPL/water to disposal drum. O Gallo Pure DNAPL to disposal drum. O Gallo DNAPL/water to disposal drum. O Gallo Product. Carbon. Waste Storace Drum Drum DNAPL drums on-site (full and fractional) Z Drum PIE/Solids drums Q Drum Drums labeled? Yes No Drums palletized? Yes No	ns ns ns ns ns ns ns ns ns ns
Product sampled? Yes No Recovery and Disposal Recovery from DNAPL Drum Q Gallo Pure DNAPL to disposal drum. Q Gallo DNAPL/water to disposal drum. Q Gallo DNAPL/water to oll/water separator. S Gallo Recovery from Oil/Water Separator. S Gallo Pure DNAPL to disposal drum. Q Gallo DNAPL/water to oll/Water Separator Gallo Gallo Pure DNAPL to disposal drum. Q Gallo DNAPL/water to disposal drum. Q Gallo DNAPL water to disposal drum. Q Gallo DNAPL water to disposal drum. Q Gallo Product. Carbon. Waste Storace Image: Carbon drums Image: Carbon drums PPE/Solids drums Image: Carbon drums Image: Carbon drums Drums Image: Carbon drums Image: Carbon drums	ns ns ns ns ns ns ns)

Yes

No

Notes:

Vac at sump enclosure? (Check Monthly)

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)

	 10	10

off

DNAPL System	0	
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	4	Arrow
Refill control setting (departure)	ł	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(es)	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	9	Arrow
Refill control setting (departure)	K	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	1442	Feet
<u>Oil/Water Separator</u>	/	
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor

Good

Yes

Yes

Yes

Poor No

NO No

Decant valve integrity.

LNAPL in separator?

Separator cleaned?

Technician: Date:

Separator needs cleaning?

m

Table 4-1

		_
LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	fes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.01	GPM
Totalizer reading (cumulative volume).	184268	Gallon
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	26	10
Filter unit 2 pressure @ Arrival (In /Out)	15	18
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Ves)	No
	~	
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondaryl?	Yes	No
New carbon polishing drum?	Yes	No
Discharae Pipina Pipe integrity in shed,	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	(Yes)	No
Fibe at clear clear:		
Miscellaneous		
Building and Site		
Remediation shed intearity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No

res	No
Good	Poor
3.0 i	No
	GPM
184268	Gallons
Yes	No
26	10
15	
Good	Poor
Yes	
0	PSI
Yes	No
Good	Poor
Yes	No
8	PSI
L Jes	No
(Cond)	Peer

Good	Poor
Yes	No
1	PSI
Yes	No
Yes	No

	Good	Poor
asin.	Good	Poor
ar?	Yes	No
	Good	Poor
	Yes	No

Good Yes Yes	Poor No
Yes	No
Yes	10
	NO
Yes	No
	No
Yes	No
	2

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	380.0	No
Compressor hours.		Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	NO
Compressor trap operating? Regulator operating?	Ves	No
	res	No No
Air lines performing properly?	reg	IND
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		7
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarter
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oll/water separator.		Gallons
Recoverv from Oil/Water Separator	-	
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.		Gailons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	4	Drums
PPE/Solids drums		Drums
LNAPL drums	0	Drums
Drums labeled?	d'es/	No
Drums palletized?	(es)	No
Club Vent System		
Fan Running?	(Yes)	No
Vac at sump enclosure? (Check Monthly)		No
	hud a	ded
Notes: Installed and 3) when costbours 143 only fill to	e	m L

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	2350	Feet

No

Poor

Poor

No No

No

Yes

Good

Good

Yes

Yes

Yes

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	31	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	X	Arrow
Refill control setting (departure)	r	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14.90	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor

ame

Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning?

Technician: -2

Separator cleaned?

Date:

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump intearity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	402	GPM
Totalizer reading (cumulative volume).	195309	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	9.5	7.5
Filter unit 2 pressure @ Arrival (In /Out)	12	6.5
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum loake?	Ves	NIO

Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Pollshing drum rotated to secondaryl? New carbon polishing drum?

	lscharge Piping	l
8	pe Integrity in shed.	
۹	pe integrity at catch basin.	
	pe at catch basin clear?	
d	pe integrity at creek.	
	pe at creek clear?	
	 pe at catch basin clear? pe integrity at creek.	

Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	CNO
Spill evidence?	Yes	No
		\bigcirc
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational - 04	Yes	No

Yes	No
Good	Poor
Yes	No
402	GPM
95309	Gallons
Yes	No
9.5	7.5
12	6.5

Poor
No
PSI
No

Good	Poor
Yes	No
3	PSI
Yes	No

Good	Poor
Yes	No
05	PSI
Yes	No
Yes	No

Good	Poor
Good	Poor
Yes	No
Good	Poor
Yes	No

Wiscenarieous - (Containded)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	387.7	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Barry and Disease		
Recovery and Disposal		
Recovery from DNAPL Drum	0	
Pure DNAPL to disposal drum.	- č	Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
Dec. (1)		
Recovery from Oil/Water Separator	0	0.1
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	6	Denma
Spent carbon drums	õ	Drums
PPE/Solids drums	0	Drums Drums

PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No
Notes: Drum P/W		

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	13	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	*	Arrow
Refill control setting (departure)	71	Arrow
1998, 2004, 1224 - AAA		
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	24.80	Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No

LNAPL/Groundwater System	
Operational upon arrival?	
LNAPL pump pressure (arrival)	
LNAPL pump pressure (departure)	
Bubbler tube operating pressure.	
Pneumatic settings adjusted?	
Discharge control setting (departure)	
Refill control setting (departure)	
INAPI Pump and Pining	

LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.

Oil/Water Separator

Water high level shut-off operational?
Red warning light operational?
Separator vessel integrity.
Leaks present?
Separator cover and seal integrity.
Decant valve integrity.
LNAPL in separator?
Separator needs cleaning?
Separator cleaned?

7/10

Technician:

D - t -	
Date:	

Table 4-1

Electrical and Heating

Heater operational

Electric controls operational

PSI

PSI

PSI

No

Arrow

Arrow

Poor

No

Feet

No

No

Poor

NO

Poor

Poor

Ng

No

No

20

20

P

Yes

7

2

Good

Yes

Yes

Good

Yes

Good

Good

Yes

Yes

Yes

Yes

Kyll.

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.05	GPM
Totalizer reading (cumulative volume).	201037	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	1 -7	
Filter unit 2 pressure @ Arrival (In /Out)		
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
	·	
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	4.5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
		<u> </u>
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondaryl?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe intearity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Mes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No

Site Visit Checklist/Data Sheet Miscellaneous - (Continued) Access Vaults

Overall vault integrity.

Repairs needed to vaults?	Yes
Air Compressor	
Compressor operational?	Yes
Compressor hours.	394.9
Oil level checked?	Yes
Oil level changed?	Yes
Compressor trap operating?	Yes
Regulator operating?	Yes
Air lines performing properly?	Yes

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		1
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Good

Poor

No

.

No

Hours

No

No

No

No

No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	G	Gallons
Recoverv from Oil/Water Separator Pure DNAPL to disposal drum.	o	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	_ 2_	Drums
LNAPL drums	0	Drums

Drums labeled?	Yes	No -
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

Yes

Yes

No

No

-

.

DNAPL System		0
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes 7	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	NO
DNAPL top of pump depth.	23.50	Feet

12			
	LNAPL/Groundwater System		-
l	Operational upon arrival?	Yes	No
ļ	LNAPL pump pressure (arrival)		PSI
i	LNAPL pump pressure (departure)		PSI
ľ	Bubbler tube operating pressure.		PSI
ł	Pneumatic settings adjusted?	Yes	No
Ì	Discharge control setting (departure)	100000	Arrow
l	Refill control setting (departure)		Arrow
I			
ł	LNAPL Pump and Piping		
İ	LNAPL piping integrity.	Good	Poor
Į	LNAPL pump cleaned?	Yes	No
I	LNAPL top of pump depth.	1442	Feet
Į			
	Oil/Water Separator		
	Water high level shut-off operational?	Yes	No
I	Red warning light operational?	Yes	No
I	Separator vessel integrity.	Good	Poor
I	Leaks present?	Yes	No
ļ	Separator cover and seal integrity.	Good	Poor
	Decant valve integrity.	Good	Poor
i	LNAPL in separator?	Yes	No

Yes

Yes

No

NO

Separator needs cleaning? Separator cleaned?

Technician: 7/17/1

11

Date:

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Transfer Pump and Pibling		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.78	GPM
Totalizer reading (cumulative volume).	203984	Gallon
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	20	7
Filter unit 2 pressure @ Arrival (In /Out)	12	6
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
 Providence Contractor and Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-		
Carbon Treatment Drums		

Good

Yes

Good

Yes

Yes

Good

Yes

Yes

Yes

1

Poor

PSI

No 7

Poor

No

PSI

No/

Poor

NO

PSI

NO

Primarv carbon drum integrity. Primarv carbon drum leaks? Primarv carbon drum pressure. Primarv drum removed for disposal?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondary!? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	(NO
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	398.4	 Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	N
Compressor trap operating?	Yes	No
	Yes	No
Regulator operating?		
Air lines performing property?	Yes	No
		No
Air lines performing property? Sampling Sampling Performed?		No
Air lines performing property? Sampling Sampling Performed? Post Carbon Sample Time	Yes	
Air lines performing property? Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time	Yes	
Air lines performing property? Sampling Sampling Performed? Post Carbon Sample Time	Yes	
Air lines performing property? Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time	Yes	No
Air lines performing property? Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time Sampling event?	Yes	No
Air lines performing property? Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time Sampling event?	Yes	No
Air lines performing property? Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time Sampling event? Product sampled?	Yes	No
Air lines performing property? Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time Sampling event? Product sampled? Recovery and Disposal	Yes	No
Air lines performing property? Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum	Yes	Quarterly

Recovery from Oll/Water Separator 0 Pure DNAPL to disposal drum. Gallons 0 DNAPL/water to disposal drum. Gallons Product, Carbon, Waste Storage 0 DNAPL drums on-site (full and fractional) Drums 0 Spent carbon drums Drums 0 PPE/Solids drums Drums 0 LNAPL drums Drums Drums labeled? Yes No Drums palletized? Yes No **Club Vent System** Fan Running? Yes No Vac at sump enclosure? (Check Monthly) Yes No

Notes: Sup syster up / Ar Jun

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	Q	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)	7	Arrow
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity.	Yes Yes Good	No No Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	2450	Feet

Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	~	Arrow
Refill control setting (departure)	21	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	1440	Feet
Errer D top of painp doput	140	1000
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
	Good	Poor
Separator vessel integrity.		
Leaks present?	Yes	Nø
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

Technician:___

Date:___

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.70	GPM
Totalizer reading (cumulative volume).	201900	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)		-
Filter unit 2 pressure @ Arrival (in /Out)	15	10
Filter unit 1 pressure @ Departure (In/Out)	-	~
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	- 4	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	NO
Polishing carbon drum pressure.		PSI
Polishing drum rotated to secondaryl?	Yes	NO
New carbon polishing drum?	Yes	NO
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin basin basin basin clear?	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
-		
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Access Vaults		
Overall vault integrity.	Good	Pool
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	358.3	Hour
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time	0830	
Pre-Carbon Sample Time	0945	
Sampling event?	Monthly	Quarte
Product sampled?	Yes	No
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallo
DNAPL/water to disposal drum.	0	Gallo
DNAPL/water to oil/water separator.	10	Gallo
DIVAPLY Water to only water separator.		
Recoverv from Oil/Water Separator		
Pure DNAPL to disposal drum.		Gallo
		Gallo
DNAPL/water to disposal drum.		
DNAPL/water to disposal drum. Product, Carbon, Waste Storage		Drun
	0	
Product. Carbon. Waste Storage	00	Drun
Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)	000	
Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	0000	Drun
Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	000	Drun Drun Drun No
Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Drun Drun No
Product. Carbon, Waste Storace DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?	O O Yes	Drun Drun No
Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?	O O Yes	Drun
Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?	O O Yes	

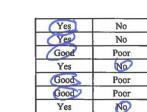
DNAPL System		
Operational upon arrival?	Yes	Ng
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes 🗸	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		-
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	-	Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No 🦯

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
nav 20 vink last		-
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No

Red warning light op Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning? Separator cleaned?

Technician:

Date:_



Yes

Yes

No

No

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.74	GPM
Totalizer reading (cumulative volume).	215072	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	15	6
Filter unit 2 pressure @ Arrival (In /Out)	10	5
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primarv carbon drum leaks?	Yes	
Primary carbon drum pressure.		PSI
Primarv drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	7	PSI
Secondary carbon rotated to primary?	Yes	NO
Secondary carbon rotated to primary:		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.		PSI
Polishing drum rotated to secondarvi?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping Pipe integrity in shed. Pipe integrity at catch basin for Pipe at catch basin clear? Pipe integrity at creek.		
Discharge Piping	Good	Deer
Pipe integrity at established	Good	Poor
Pipe at eatch basin dear?	Yes	No
Pipe integrity at creek	Good	Poor
Pipe at creek clear?	Good	No
The di ucen vieli :	103	
Miscellaneous		-
Building and Site		-
Remediation shed Integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	401.3	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		Ý
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarter
Product sampled?	Yes	No
Reservery and Dispanel		
Recovery and Disposal		
Recovery from DNAPL Drum	0	Caller
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	0	
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator		Gallons Gallons Gallons
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons Gallons
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage		Gallons Gallons Gallons Gallons
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Drums Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums		Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums Drums Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?		Gallons Gallons Gallons Gallons Drums Drums Drums Drums No
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Роог
Leaks present?	Yes	No
Decant valve integrity.	Good	Paor
		we
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor

LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.

Date:

<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poo
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poo
Decant valve integrity.	Good	Poo
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No
Technician: Miller		
Date:9/11/16		

No

Feet

Yes

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	251	GPM
Totalizer reading (cumulative volume).	DUSTE	Gallons
Water filters changed?	Yes	Na
Filter unit 1 pressure @ Arrival (In/Out)	15	7
Filter unit 2 pressure @ Arrival (In /Out)	10	1
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
	·	
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	NO
Primary carbon drum pressure.	CS CS	PSL
Primary drum removed for disposal?	Yes	No
Finiary druin removed for disposal:	L165	
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.		PSI
Secondary carbon rotated to primary?	Yes	
Secondary carbon rotated to brinary:		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	
Polishing carbon drum pressure.		PSI
Polishing drum rotated to secondary!?	Yes	
New carbon polishing drum?	Yes	
New carbon polishing drum?	LTes	NO
Discharae Pipina		
Pipe Integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
	/	
Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		

Electrical and Heating Electric controls operational Heater operational

Yes	No
Good	Poor
Yes	No
251	GPM
U.ST.S.	Gallons
Yes	Na
IS	7
10	(

Good	Poor
Yes	NO
5	PSL
Yes	No
Good	Poor
Yes	No
3	PSI
Yes	No
	0
Good	Poor
Yes	No
	PSI
Yes	No
N.	

Good Overall vault integrity. Poor No Repairs needed to vaults? Yes Air Compressor Compressor operational? No Yes 401.3 Compressor hours. Hours Yes Oil level checked? No No Oil level changed? Yes 5156 No Compressor trap operating? Yes No Regulator operating? Yes 201 No Air lines performing properly? Yes

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	_ 0_	Gallons
Product, Carbon, Waste Storage		,
DNAPL drums on-site (full and fractional)	_0	Drums
Spent carbon drums	_0	Drums
PPE/Solids drums	_ 0	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	NoNo
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Yes	No

Notes:

No

No

Yes

Yes

WA

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)

Access Vaults

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
	Yes	No
High level shut off operational?		
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

Yes	No
	PSI
	PSI
	PSI
Yes	No
	Arrow
	Arrow
Good	Poor
Yes	No
	Feet
Yes	No
Yes	No
Good	Poor
Yes	No
Good	Poor
Good	Poor
Yes	No
Yes	No
Yes	No
	Yes Yes Yes Good Yes Good Yes

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump intearlty.	Goed	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.48	GPM
Totalizer reading (cumulative volume).	228038	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	40	7
Filter unit 2 pressure @ Arrival (In /Out)	30	5
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	NO
Primary carbon drum pressure.	4	PSI
Primary drum removed for disposal?	Yes	No

Secondary carbon drum Integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharae Pipina		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poors
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued) Access Vaults Overall vault integrity. Good Repairs needed to vaults? Yes

Site Visit Checklist/Data Sheet

Air Compressor		
Compressor operational?	Yes	No
Compressor hours.		Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		Y
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly

Yes

Recoverv from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallon
DNAPL/water to disposal drum.	_0_	Gallon
DNAPL/water to oil/water separator.	- 3-	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	2	Gallon
DNAPL/water to disposal drum.	0	Gallon
Product. Carbon. Waste Storage		
DNAPL drums on-site (full and fractional)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Product sampled?

Poor

No

PSI No

Poor No

PSI

No

No

Good

Yes

Yes

Good

Yes 1

Yes

Yes

Notes: CRT pupping 14th 130 gallons 15th 1\$00 gallon 16th 780 gallon

Poor

No

No

DNAPL System		0
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
	/	
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	NO
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet

Kaist

No

No

Poor

No Poor

Poor

No

No

No

(Yes)

Yes

Yes

Good

Good

Yes

Yes

Yes

Good

Oil/Water Separator Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning? Separator cleaned?

Technician:_

Date:_

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.47	GPN
Totalizer reading (cumulative volume).	233415	Gallor
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	25	0
Filter unit 2 pressure @ Arrival (In /Out)	30	5
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poo
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	3	PSI
Primary drum removed for disposal?	Yes	No
		0
Secondary carbon drum integrity.	Good	Poo
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	1	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poo
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.		PS
Polishing drum rotated to secondary?	Yes	No
New carbon polishing drum?	Yes	No
Discharae Pipina		-
Pipe integrity in shed.	Good	Poo
Pipe integrity at catch basin.	Good	Poo
mine the state of some	Yes	No
Pipe at catch basin clear? Pipe integrity at creek.	Good	Poo
Pipe at creek clear?	Yes	No
	1.00	
Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poo
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Ves	Na

Yes	No
Good	Poor
Yes	No
2.47	GPM
233415	Gallons
Yes	No
25	2
30	5
0	

Good	Poor
Yes	No
3	PSI
Yes	No
	0
Good	Poor
Yes	No
1	PSI
Yes	No
	0
Good	Poor
Yes	No.

Yes	No.
1	PSI
Yes	No
Yes	No
	/ /

Good	Poor
Good	Poor
Yes	No
Good	Poor
Yes	No

2 Spill evidence? No Yes Electrical and Heating Yes No Electric controls operational WK Yes No Heater operational

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
		<u> </u>
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.		Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time	1215	
Pre-Carbon Sample Time	1230	
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recoverv from DNAPL Drum		Callera
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	0	
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	0	
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	000000000000000000000000000000000000000	Gallons
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0	Gallons Gallons
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator	000	Gallons Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0000	Gallons Gallons Gallons
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons Gallons Gallons
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage	000	Gallons Gallons Gallons Gallons Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	0000	Gallons Gallons Gallons Gallons Drums Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	0 0 0 0 0 0 0 0 0 0 0 0	Gallons Gallons Gallons Gallons Drums Drums Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums		Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Gallons Gallons Gallons Gallons Drums Drums Drums No
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized? Club Vent System Fan Running?		Gallons Gallons Gallons Gallons Drums Drums Drums No
Recoverv from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recoverv from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storace DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums palletized? Club Vent System	Yes Yes	Gallons Gallons Gallons Drums Drums Drums No No

DNAPL System		_
Operational upon arrival?	Yes	No.
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity.	Yes Good Yes Good	No No Poor No Poor
DNAPL Pump and Piping		1001
DNAPL piping integrity.	Good	Peor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Loaks prosent.	Good	Poor
Separator cover and seal integrity.	Good	Poor
•	Yes	No
Separator cover and seal integrity.	100	NO
Separator cover and seal integrity. Decant valve integrity.	Yes	
Separator cover and seal integrity. Decant valve integrity. LNAPL in separator?		NO

Table 4-1

LNAPL/Groundwater System - (Continued)			
Transfer Pump and Piping			
Pump operational?	Yes	No	
Pump integrity.	Good	Poor	
Flow meter operational?	Yes	No	
Transfer pump flow rate.	276	GPM	
Totalizer reading (cumulative volume).	237718	Gallons	
Water filters changed?	Yes	No	
Filter unit 1 pressure @ Arrival (In/Out)	35	6	
Filter unit 2 pressure @ Arrival (In /Out)	30	5	
Filter unit 1 pressure @ Departure (In/Out)			
Filter unit 2 pressure @ Departure			
Carbon Treatment Drums			
Primarv carbon drum integrity.	Good	Poor	
Primarv carbon drum leaks?	Yes	No	
Primary carbon drum pressure.	_ 4	PSI	
Primary drum removed for disposal?	Yes	No	
		<u> </u>	
Secondary carbon drum integrity.	Good	Poor	
Secondary carbon drum leaks?	Yes	No	
Secondary carbon drum pressure.	_ ~	PSI	
Secondary carbon rotated to primary?	Yes	NO	
Polishing carbon drum integrity.	Good	Poor	
Polishing carbon drum leaks?	Yes	No	
Polishing carbon drum pressure.		PSI	

Polishina carbon drum pressure. Polishina drum rotated to secondarv!? New carbon polishing drum? Discharae Pioina

Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
	2010 C	

Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Manual and Handlan		
Electrical and Heating		~
Electric controls operational	Yes	No
Heater operational	Yes	No

Access Vaults		
Overall vault integrity.	Good	Poo
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.		Hou
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recoverv from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum,	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon. Waste Storage		
DNAPL drums on-site (full and fractional)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums		Drums
LNAPL drums	_ 3	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Yes	No
Yes	No

Notes:

No

NO

Yes

Yes

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Аптоw
Refill control setting (departure)		Arrow
DNAPL Drum	-	
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Tes	No
LNAPL pump pressure (arrival)	_	PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
and had been here	/	
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No
Technician: MR,		
Date: 0 22 15		

Date:_

Table 4-1

	LNAPL/Groundwater System - (Continued)		
	Transfer Pump and Piping		
	Pump operational?	Yes	No
	Pump integrity.	Good	Poor
	Flow meter operational?	Yes	No
	Transfer pump flow rate.	765	GPM
	Totalizer reading (cumulative volume).	231037	Gallons
	Water filters changed?	Yes	No
	Filter unit 1 pressure @ Arrival (In/Out)	40	7
	Filter unit 2 pressure @ Arrival (In /Out)	30	6
	Filter unit 1 pressure @ Departure (In/Out)		
	Filter unit 2 pressure @ Departure		
l	Carbon Treatment Drums		
l	Primary carbon drum integrity.	Good	Poor
l	Primary carbon drum leaks?	Yes	No
l	Primary carbon drum pressure.	.5	PSI
l	Primary drum removed for disposal?	Yes	NO
l			
Į	Secondary carbon drum integrity.	Good	Poor
l	Secondary carbon drum leaks?	Yes	No
	Secondary carbon drum pressure.	2	PSI
	Secondary carbon rotated to primary?	Yes	No
	Polishing carbon drum integrity.	Good	Poor
	Polishing carbon drum leaks?	Yes	NO
	Polishing carbon drum pressure.	1	PSI
	Polishing drum rotated to secondaryl?	Yes	NO
	New carbon polishing drum?	Yes	NO
I	Discharge Piping		
I	Pipe integrity in shed.	Good	Poor
I	Pipe integrity at catch basin.	Good	Poor
	Pipe at catch basin clear?	Yes	No
	Pipe integrity at creek.	Good	Poor
l	Pipe at creek clear?	Yes	No
1			_
	Miscellaneous		
	Building and Site		
	Remediation shed integrity.	Good	Poor
	Shed ventilation acceptable?	Yes	No
ł	Repairs/work needed?	. Yes	NO
	Splll evidence?	Yes	No
	Electrical and Heating		
	Electric controls operational	Yes	No
	Heater operational Bresture off	Tes	No
1		the second se	

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		_
Compressor operational?	Yes	No
Compressor hours.		Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarter
Product sampled?	Yes	No
Recovery and Disposal	Yes	<u>No</u>
	<u>Yes</u>	
Recovery and Disposal Recovery from DNAPL Drum		Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.		<u>No</u> Gallon Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	8	Gallon Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.		Gallon Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	8	Gallon Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum.	8	Gallon Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	8	Gallon Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	8	Gallon Gallon Gallon Gallon Gallon
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)	8	Gallon Gallon Gallon Gallon Gallon Drum Drum
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	8	Gallon Gallon Gallon Gallon Gallon Drum Drum
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	8	Gallon Gallon Gallon Gallon Gallon Drum Drum
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Gallon Gallon Gallon Gallon Gallon Drum Drum Drum Drum
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Gallon Gallon Gallon Gallon Gallon Drum Drum Drum Drum No
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oll/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storaae DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?		Gallon Gallon Gallon Gallon Gallon Drum Drum Drum Drum No

Notes:

DNAPL System		0
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
	1	
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	(Good)	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	1	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
Red warning light operational?	YES	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No

	0
Yes	No
	PSI
	PSI
Yes	No
	Arrow
	Arrow
Yes	No
Yes,	No
Good	Poor
Yes	No
(Good)	Poor
Good	Poor
	No
Yes	140

	Yes	No
ral)		PSI
rture)		PSI
ure.		PSI
	Yes	No
parture)		Arrow
ure)		Arrow
	Card	P
	Good	Poor
	Yes	No

Yes	No
Yes	No
Good	Poor
Yes	No
Good	Poor
Good	Poor
Yes	NO
Yes	NO
Yes	No

Separator cleaned? Technician:_

Separator cover and seal integrity.

Decant valve integrity.

LNAPL in separator?

Separator needs cleaning?

Ja	

Table 4-1

LNAPL/Groundwater System - (Continued)	
Transfer Pump and Piping	_	
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.03	GPM
Totalizer reading (cumulative volume).	240855	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	40	2
Filter unit 2 pressure @ Arrival (In /Out)	40	2,
Filter unit 1 pressure @ Departure (In/Out)	15	7.5
Filter unit 2 pressure @ Departure	10	7
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	(No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	(NO
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	NO
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	e	PSI
Polishing drum rotated to secondary?	Yes	118
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Dine intentity at an als	Qued	Dave

Pipe integrity at creek.	Good	Poor	
Pipe at creek clear?	Yes	No	
Miscellaneous			
Building and Site			
Remediation shed integrity.	Goed	Poor	
Shed ventilation acceptable?	Yes	No	
Repairs/work needed?	Yes	NO	
Spill evidence?	Yes	NO	
		<u> </u>	N
Electrical and Heating			
Electric controls operational	Yes	No	
Heater operational	Yes	No	

Miscellaneous - (Continued) Access Vaults Good Overall vault integrity. Poor No Repairs needed to vaults? Yes Air Compressor C E 3 F -

DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled? NN	Yes	No
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes 2	No

lotes:

Air Compressor		
Compressor operational?	Yes	No
Compressor hours.		Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		4
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recoverv from DNAPL Drum		
Pure DNAPL to disposal drum.	2	Gallons
DNAPL/water to disposal drum.	2	Gallons
DNAPL/water to oil/water separator.	-0-	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
		Ganona
Product. Carbon. Waste Storage		
DNAPL drums on-site (full and fractional)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums		Drums
LNAPL drums	0	Drums
Drums labeled? NR 5	Yes	No
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes 2	No
lates:		

DNAPL System		~
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	(Good)	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	(N
LNAPL pump pressure (arrival)		PS
LNAPL pump pressure (departure)		PS
Bubbler tube operating pressure.		PS
Pneumatic settings adjusted?	Yes	N
Discharge control setting (departure)		Ап
Refill control setting (departure)		Arro

LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.

Oil/Water Separator

Water high level shut-off operation	al?
Red warning light operational?	
Separator vessel integrity.	
Leaks present?	
Separator cover and seal integrity.	
Decant valve integrity.	
LNAPL in separator?	
Separator needs cleaning?	
Separator cleaned?	

Technician: n Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Nes	No
Transfer pump flow rate.	2.78	GPM
Totalizer reading (cumulative volume).	243098	Gallons
Water filters changed?	Yes	NOT
Filter unit 1 pressure @ Arrival (In/Out)	16	60
Filter unit 2 pressure @ Arrival (In /Out)	12	6
Filter unit 1 pressure @ Departure (In/Out)	6	
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Goods	Poor
Primarv carbon drum leaks?	Yes	No
Primary carbon drum pressure.	9	PSI
Primary drum removed for disposal?	Yes	No
8 (422) (47 204/3524288-4) (1992		
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
Polishina carbon drum Integrity.	Good	Poor
Polishina carbon drum leaks?	Yes	No
Polishina carbon drum pressure.		PSI
Polishing drum rotated to secondarvi?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe intearity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor

		_	
			Miscellaneous - (Continued)
			Access Vaults
	No		Overall vault integrity.
od	Poor		Repairs needed to vaults?
IS	No		
78	GPM		Air Compressor
099	Gallons		Compressor operational?
S	No		Compressor hours.
	60		Oil level checked?

moochaneous (oonanaed)		
Access Vaults Overall vault integrity. Repairs needed to vaults?	Good	Poor
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.		Hours
Oil level checked?	Yes	No
Oil level changed?	Yes /	No
Compressor trap operating?	Yes	No
Regulator operating?	les	No
Air lines performing properly?	Yes	No

Sampling Performed?	Yes.	No 1
Post Carbon Sample Time		4
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	\cap	College
DNAPL/water to disposal drum.		Gallons
DIVAPLY water to disposal drum.		Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	_ 0	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Tes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

Pipe at creek clear?	Yes
Miscellaneous	
Building and Site	
Remediation shed integrity.	Good
Shed ventilation acceptable?	Yes
Repairs/work needed?	Yes

Pipe at catch basin clear?

Pipe integrity at creek.

Spill evidence?

Electrical and Heating

Heater operational

Electric controls operational

Van	No
Yes	NC

Yes

Yes

Good

No

Poor

No

Poor

No No Site Visit Checklist/Data Sheet

High level shut off operational?	
Green warning light operational?	
DNAPL drum container integrity.	
Leaks present?	
Decant valve integrity.	
DNAPL Pump and Piping	
DNAPL piping integrity.	
DNAPL pump cleaned?	
DNAPL top of pump depth.	
	-
LNAPL/Groundwater System	
Operational upon arrival?	

L	Yes	(No)
[PSI
		PSI
		PSI
E	Yes	No
		Arrow
	/	Arrow

Good	Poor
Yes	No
	Feet

Yes	No
Yes	No
Good	Poor
Yes	No
Good	Poor
Good	Poor
Yes	No
Yes	No
Yes	No

DNAPL System Operational upon arrival? Yes No DNAPL pump pressure (arrival) PS1 DNAPL pump pressure (departure) PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) Arrow Refill control setting (departure) Arrow DNAPL Drum High level shut off operational? (Yes) No Green warning light operational? Yes No DNAPL drum container integrity. Good) Poor Leaks present? Yes No Decant valve integrity. Good Poor DNAPL Pump and Piping DNAPL piping integrity. Good Poor DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet

Operational upon arrival?	Yes
LNAPL pump pressure (arrival)	
LNAPL pump pressure (departure)	
Bubbler tube operating pressure.	
Pneumatic settings adjusted?	Yes
Discharge control setting (departure)	-
Refill control setting (departure)	

LNAPL piping inte LNAPL pump clear LNAPL top of pun

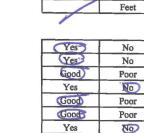
Oil/Water Separator

Water high level shut-off operational?	
Red warning light operational?	
Separator vessel integrity.	
Leaks present?	
Separator cover and seal integrity.	
Decant valve integrity.	
LNAPL in separator?	
Separator needs cleaning?	
Separator cleaned?	

Technician:

LNAPL Pump and Piping

and the second se	
egrity.	Г
ned?	Г
np depth.	



Yes

Yes

Good

Yes

No

PSI

PSI

PSI

No

Arrow

Arrow

Poor

No

NO

No

Table 4-1

LNAPL/Groundwater System - (Continued)		-	
Transfer Pump and Piping			
Pump operational?	Yes	No	
Pump integrity.	Good	Poor	
Flow meter operational?	Yes	No	
Transfer pump flow rate.	770	GPM	
Totalizer reading (cumulative volume).	251730		
Water filters changed?		Gallons	
Filter unit 1 pressure @ Arrival (In/Out)	Yes	C No	
	111	4	
Filter unit 2 pressure @ Arrival (in /Out)	17	7	
Filter unit 1 pressure @ Departure (In/Out)			
Filter unit 2 pressure @ Departure			
Carbon Treatment Drums			
Primary carbon drum integrity.	Good	Poor	
Primary carbon drum leaks?	Yes	/No	
Primary carbon drum pressure.		PSI	
Primary drum removed for disposal?	Yes	No	
Final a druit temoved for disposal?	Yes	- <u>(NO</u>	
Secondary carbon drum integrity.	Good	Poor	
Secondary carbon drum leaks?	Yes	NO	
Secondary carbon drum pressure.	7	PSI	
Secondary carbon rotated to primary?	Yes	No	
Polishing carbon drum integrity.	Good	Poor	
Polishing carbon drum leaks?	Yes	No	
Polishing carbon drum pressure.	1	PSI	
Polishing drum rotated to secondaryl?	Yes	NO	
New carbon polishing drum?	Yes	NO	
		0	
Discharge Plping			
Pipe intearity in shed.	Good	Poor	
Pipe inteority at catch basin.	Good	Poor	
Pipe at catch basin clear?	Yes	No	
Pipe integrity at creek.	Good	Poor	
Pipe at creek clear?	Yes	No	
Mineelleneeue			
Miscellaneous		-	
Building and Site			
Remediation shed integrity.	Good	Poor	
Shed ventilation acceptable?	Yes	No	
Repairs/work needed?	Yes	No	
Spill evidence?	Yes	NO	
Electrical and Heating			
Electric controls operational	Yes	No	
Heater operational	Yes	No	

Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.		Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
SamplingSampling	Yes	No
Sampling Sampling Performed? Post Carbon Sample Time		
Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time	Yes	No
Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time Sampling event?	Yes	Quarter
Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time	Yes	
Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time Sampling event?	Yes	Quarter
Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time Sampling event? Product sampled?	Yes	Quarter
Sampling Samplina Performed? Post Carbon Sample Time Pre-Carbon Sample Time Samplina event? Product sampled? Recovery and Disposal	Yes	<u>Quarter</u> No
Sampling Samplina Performed? Post Carbon Sample Time Pre-Carbon Sample Time Samplina event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum	Yes	Quarter

Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.

Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) 0 Drums Spent carbon drums Drums 0 PPE/Solids drums S Drums LNAPL drums D Drums Drums labeled? Yes No Drums palletized? Yes No **Club Vent System** Fan Running? Yes No Vac at sump enclosure? (Check Monthly) Yes No

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5

Gallons

Gallons

Notes:

wed sheets

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

	LNAPL/Groundwater System		-
	Operational upon arrival?	Yes	No
	LNAPL pump pressure (arrival)		PSI
	LNAPL pump pressure (departure)		PSI
	Bubbler tube operating pressure.		PSI
	Pneumatic settings adjusted?	Yes	No
	Discharge control setting (departure)		Аптоw
	Refill control setting (departure)		Arrow
	LNAPL Pump and Piping		
	LNAPL piping integrity.	Good	Poor
	LNAPL pump cleaned?	Yes	No
	LNAPL top of pump depth.		Feet
	Oil:Water Separator		
	Water high level shut-off operational?	Yes	No
red	White warning light operational?	Yes	No
	Separator vessel integrity.	Good	Poor
	Leaks present?	Yes	No
	Separator cover and seal integrity.	Good	Poor
	Decant valve integrity.	Good	Poor
	LNAPL in separator?	Yes	No
	Separator needs cleaning?	Yes	No
	Separator cleaned?	Yes	No
	Technician: MK		
l	Date: 12/7/15		

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	
Transfer pump flow rate.	-	GPM
Totalizer reading (cumulative volume).	-	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	17/2	PSI
((111	101
Carbon Treatment Drums	1011	
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.		PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	-3	PSI
Secondary carbon removed for disposal?	Yes	N
Polishing drum rotated to secondary?	Yes	N
New carbon placed in secondary drum?	Yes	
New carbon placed in secondary drunt?	ICS	1
Polishing carbon drum integrity.	Good	Deer
Polishing carbon drum leaks?	Yes	Poor
Polishing carbon drum pressure.	ics	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
field saloon phood in printing dram	105	140
Discharge Piping	[
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poer
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
	100	
Mine R		
Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	(Yes)	No
Repairs/work needed?	Yes	NØ
Spill evidence?	Yes	NO
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No
	1 ES	0/1

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults	0	
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	NO
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.		Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	145	a.m./p.m.
Product sampled?	Yes	Ng
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	2	Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	2	Gallons Gallons
Pure DNAPL to disposal drum.	203	
Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	200	Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.		Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil: Water Separator</u>		Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil Water Separator</u> Pure DNAPL to disposal drum.	200	Gallons Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil Water Separator</u> Pure DNAPL to disposal drum.		Gallons Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <i>Recavery from Oil Water Separator</i> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <i>Product, Carbon, Waste Storage</i> DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		Gallons Gallons Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <i>Recovery from Oil Water Separator</i> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <i>Product, Carbon, Waste Storage</i> DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <i>Recovery from Oil Water Separator</i> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <i>Praduct, Carbon, Waste Storage</i> DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Drums Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <i>Recavery from Oil Water Separator</i> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <i>Product, Carbon, Waste Storage</i> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums Drums Drums

Notes: > Weits billers

DNAPL System		
Operational upon arrival?	Yes	(No)
DNAPL pump pressure (arrival)	2	PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good>	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poer
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	-	Feet
	· · ·	
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No

Operational upon arrival?	Yes
LNAPL pump pressure (arrival)	
LNAPL pump pressure (departure)	
Bubbler tube operating pressure.	
Pneumatic settings adjusted?	Yes
Discharge control setting (departure)	
Refill control setting (departure)	

LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth

Errar E whor brink debut
Oil/Water Separator
Water high level shut-off operational?
Red warning light operational?

	S
I	Red warning light operational?
f	Separator vessel integrity.
Ņ	Leaks present?
	Separator cover and seal integrity.
	Decant valve integrity.
l	LNAPL in separator?
$\ $	Separator needs cleaning?
ĺ	Separator cleaned?
1	Technician:

PSI

PSI

PSI

No

Arrow

Arrow

Poor

No

Feet

No

No

Poor

No

Poor

Poor

No

No

No

Good

Yes

Yes

Yes

Good

Yes

Good

Good

Yes

Yes

Yes

Transfer Pump and Piping Pump operational? Yes Pump integrity. Good Yes Flow meter operational? Transfer pump flow rate. Totalizer reading (cumulative volume). 22 Water filters changed? Yes Filter unit 1 pressure @ Arrival (In/Out) 3 12 Filter unit 2 pressure @ Arrival (In /Out) Filter unit 1 pressure @ Departure (In/Out) Filter unit 2 pressure @ Departure Carbon Treatment Drums Good

Table 4-1

LNAPL/Groundwater System - (Continued)

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary drum removed for disposal?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	(No)
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No.
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	NO
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.		Hours
Oll level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quartert

Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oll/water separator.	0	Gallons
Recoverv from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes `	No
Club Vent System		
Fan Running?	Yes	No

Yes

No

Notes:

No

Poor

No

GPM

Gallons

No

)

C

Poor

No

PSI

No

Poor

No

PSI

No

Poor

No

PSI

No

No

Product sampled?

Yes

Good

Yes

Yes

Good

Yes

Yes

Yes

Site Visit Checklist/Data Sheet

5

DNAPL System Operational upon arrival? No Yes DNAPL pump pressure (arrival) PSI DNAPL pump pressure (departure) PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) Arrow Refill control setting (departure) Arrow DNAPL Drum High level shut off operational? Yes No Green warning light operational? Yes No DNAPL drum container integrity. Good Poor Leaks present? No Yes Decant valve integrity. Good Poor DNAPL Pump and Piping DNAPL piping integrity. Good Poor DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet

LNAPL/Groundwater System	Min and All
Operational upon arrival?	Yes
LNAPL pump pressure (arrival)	
LNAPL pump pressure (departure)	-
Bubbler tube operating pressure.	
Pneumatic settings adjusted?	Yes
Discharge control setting (departure)	1
Refill control setting (departure)	6
LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.	Good Yes
Oil/Water Separator	
Water high level shut-off operational?	Yes
Red warning light operational?	Yes
Separator vessel integrity.	Good
Leaks present?	Yes
Separator cover and seal integrity.	Good

Decant valve integrity. LNAPL in separator? Separator needs cleaning? Separator cleaned?

Technician:

Date:

m

12/11

PSI No Arrow Arrow Poor No Feet

No PSI

PSI

Yes	No
Yes	No
Good	Poor
Yes	No
Good	Poor
Good	Poor
Yes	No
Yes	No
Yes	No
	Yes Good Yes Good Yes Yes

Table 4-1

		- 10 M T
LNAPL/Groundwater System - (Continued)	1.1.1.2.1.1	1
Transfer Pump and Piping		annen in interio
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.24	GPM
Totalizer reading (cumulative volume).	10,1	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	15	G
Filter unit 2 pressure @ Arrival (In /Out)	12	7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Podr
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.		PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	4	PSI
Secondary carbon rotated to primary?	Yes	No
		<u> </u>
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	2	PSI
Polishing drum rotated to secondaryl?	Yes	No

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

New carbon polishing drum?

Yes

No

Miscellaneous			
Building and Site			
Remediation shed integrity.		Good	Poor
Shed ventilation acceptable?		Yes	No
Repairs/work needed?	•	Yes	No
Spill evidence?		Yes	No
Electrical and Heating	0		
Electric controls operational		Yes	No
Heater operational		Yes	No

Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.		Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		4 -
Sampling Performed?	Yes	No
Post Carbon Sample Time		Y
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No .

Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	2	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recoverv from Oll/Water Separator		
Pure DNAPL to disposal drum.	0	Gallon
DNAPL/water to disposal drum.	6	Gallons
Product, Carbon. Waste Storage		
DNAPL drums on-site (full and fractional)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Апоw
Refill control setting (departure)		Arrow
	1	
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Plping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No

Operational upon arrival?
LNAPL pump pressure (arrival)
LNAPL pump pressure (departure)
Bubbler tube operating pressure.
Pneumatic settings adjusted?
Discharge control setting (departure)
Refill control setting (departure)

LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.

Oil/Water Separator
Water high level shut-off operational?
Red warning light operational?
Separator vessel integrity.
Leaks present?
Separator cover and seal integrity.
Decant valve integrity.
LNAPL in separator?
Separator needs cleaning?
Separator cleaned?

7 20

Technician:

Date:

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1 0 -

Yes	No
	PSI
	PSI
	PSI
Yes	No
	Arrow
	Arrow

Good	Poor
Yes	No
/	Feet

Yes	No
Yes	No
Good	Poor
Yes	No
Good	Poor
Good	Poor
Yes	No
Yes	No
Yes	No

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.54	GPM
Totalizer reading (cumulative volume).	9586.2	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	30	2
Filter unit 2 pressure @ Arrival (In /Out)	30	2
Filter unit 1 pressure @ Departure (In/Out)	17	X
Filter unit 2 pressure @ Departure	30	2
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poer
Primary carbon drum leaks?	Yes	No
Primarv carbon drum pressure.		PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	5	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor

drum intearity. Polishing carbon drum leaks? Polishina carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Yes

1

Yes

Yes

No

PSI

No

No

Miscellaneous		
Building and Site	22	
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.		Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No.
Compressor trap operating?	Yes	No
Reculator operating?	Yes	No
Air lines performing properly?	Yes	No
-		
Sampling		1
Sampling Performed?	Yes	No
Post Carbon Sample Time	1000	
Pre-Carbon Sample Time	1015	
Sampling event?	Monthry	Quarterh
Product sampled? Recovery and Disposal	Yes	<u>No</u>
Recovery and Disposal	Yes	<u>No</u>
Recovery and Disposal Recovery from DNAPL Drum	Yes	
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.	Yes	Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.		Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator		Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage	0 0 0	Gallons Gallons Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional)	0 0 0	Gallons Gallons Gallons Gallons Gallons Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Gallons Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	0 0 0	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	0 0 0 0 0	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums No
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums pelletized?	0 0 0 0 0	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon. Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums No