FORMER GASTOWN MGP SITE SITE NO. 915171

2006 SITE VISIT CHECKLISTS FOR THE GROUNDWATER COLLECTION & TREATMENT SYSTEM

Sometime in 2006 EmpireGeo took over the operation of the Groundwater Collection & Treatment System. The first Site Visit Checklists for 2006 are from May, with the remainder of the year being complete.

DNAPL System		
Operational upon arrival?	Marion	No
DNAPL pump pressure (arrival)	34	PSI
DNAPL pump pressure (departure)	34	PSI ·
Pneumatic settings adjusted?	(Yes)	No
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)	4	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.	241/2	Feet

	4144		
LNAPL/Groundwater System			
Operational upon arrival?		Yes	No
LNAPL pump pressure (arrival)		35	PSI
LNAPL pump pressure (departure)	.	35	PSI
Bubbler tube operating pressure.		3	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.		14	Feet
9 - 9			
Oil/Water Separator			
Water high level shut-off operational?		Yes	Nο
White warning light operational?	2 1	(Tes)	No
Separator vessel integrity.		Good	Poor
Leaks present?		Yes	(NO)
Separator cover and seal integrity.		Good	Toor
Decant valve integrity.		Good	Poor
LNAPL in separator?	TRA	CL Yes	No
Separator needs cleaning?		Yes	No
Separator cleaned?		Yes	No

Technician:	ART	KOSKE	
Date: 5	-5-0	6	

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping Pump operational? Pump integrity. Flow meter operational? Transfer pump flow rate. Totalizer reading (cumulative volume).	(%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	No Poor No GPM Gallons
Water filters changed? Filter unit pressure (arrival/departure)	Yes 30/23	PSI
Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon removed for disposal? Secondary carbon drum rotated to primary? New carbon placed in primary drum?	Good Yes Yes Yes Yes	Poor No PSI No No
Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum?	Good Yes Z Yes Yes Yes	Peo (2) 25 (2) 2
Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum?	Good Yes Yes Yes	Poor No PSI No
Discharge Piping Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek. Pipe at creek clear?	Good Good Yes Good Yes	Poor Poor No Poor No

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

Miscellancous - (Continued)		
Access Vaults Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor Compressor operational?	(Ves)	No
Compressor hours.	3277	Hours
Oil level checked? Oil level changed?	Yes	No No
Compressor trap operating? Regulator operating?	Yes	No No
Air lines performing properly?		No No

Sampling		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	(MO)
Compliance event?	Yes	. (No
Time sampled.		a.m./p.m.
Product sampled?	Yes	No

In In		
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	1	Gallons
DNAPL/water to oil/water separator.		Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	-	Gallons
DNAPL/water to disposal drum.	<u> </u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	ľ	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	-	Drums
LNAPL drums		Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: ADSUSTED FRANSFER PUMP FLOW
TO SGPM

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	32	PSI
DNAPL pump pressure (departure)	40	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	T T	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
DV/DI D		
DNAPL Pump and Piping		D
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	(NO)
DNAPL top of pump depth.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.	z.8	PSI
Pneumatic settings adjusted?	1	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.	j 4	Feet
Oil/Water Separator		* * .
Water high level shut-off operational?	Yes	No
White warning light operational?		No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	(No)
1 -	Good	troor
Separator cover and scal integrity.	Good	Poor
Decant valve integrity.		No
LNAPL in separator?		
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	(No)

Technician:	ART	٠	Kos	K	ے
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Date: 5-11-06

LNAPL/Groundwater System - (Continued)		₹.
Transfer Pump and Piping Pump operational? Pump integrity. Flow meter operational?	Yes Good Yes	No Poor No
Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure)	5.4 435157 Yes 76/26	GPM Gallons No PSI
Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon removed for disposal? Secondary carbon drum rotated to primary? New carbon placed in primary drum?	Yes Yes Yes Yes	e (2) 2 (2) 2
Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum?	Good Yes 1112 Yes Yes Yes	Poor No PSI No No No No
Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum?	Good Yes 1/2 Yes Yes	Poor PSI No
Dischurge Piping Pipe integrity in shed. Pipe integrity at eatch basin. Pipe at eatch basin clear? Pipe integrity at creek. Pipe at creek clear?	Good Good Yes Good Yes	Poor Poor No Poor No

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

Miscellancous - (Continued)	* 4. *	
Access Vaults Overall vault integrity. Repairs needed to vaults?	Good Yes	Poor No
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly?	330A 95 95 95 95	No Hours No No No No

Sampling	•	
Primary carbon influent sampled?	Yes	(No)
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	
Compliance event?	Yes	(No)
Time sampled.		a.m./p.m.
Product sampled?	Yes	No

Recovery	and Disposal		
Recovery fr	om DNAPL Drum		
Pure DNAI	L to disposal drum.		Gallons
DNAPL/wa	ater to disposal drum.		Gallons
DNAPL	ater to oil/water separator.	33	Gallons
Recovery fr	om Oil/Water Separator		
Pure DNAI	L to disposal drum.		Gallons
DNAPL/wa	nter to disposal drum.		Gallons
Product. Co	arbon, Waste Storage		
DNAPL dri	ums on-site (full and fractional)	i	Drums
Spent carbo	on drums	1	Drums
PPE/Solids	drums	_	Drums
LNAPL dru	ums	- (Drums
Drums labe	eled?	(Yes)	No
Drums pall	etized?	Yes	No

Notes: DWARL PUMP DISCHARGE CHECK VALLE WAS STUCK ADJUSTED PRESSURR + FLOW SETTINGS TO FREE UP STARTE PUMPING, READJUSTED SETTINGS

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	40	PSI
DNAPL pump pressure (departure)	40	PSI
Pneumatic settings adjusted?	Yes	No -
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	K	Arrow
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity.	Yes Yes Good	No No Poor
Leaks present? Decant valve integrity.	Yes Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	24112	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	35	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	3	PSI
Pneumatic settings adjusted?	Yeş	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	->	Arrow .
LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned?	Good Yes	Poor No Feet
LNAPL top of pump depth. Oil/Water Separator	14	rect
Water high level shut-off operational?	Yes	No
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.)

Technic	ian: ART	KOSKR	
Date:	5-17-00	(a	

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping Pump operational? Pump integrity. Flow meter operational? Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure)	\(\frac{2}{3}\) \(\frac{2}\) \(\frac{2}{3}\) \(\frac{2}\) \(\frac{2}\) \(\fracc{2}\) \(\frac{2}\) \(\frac{2}\) \(\frac{2}\) \(\frac{2}\) \(\fr	No Poor No GPM Gallons No PSI
Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon removed for disposal? Secondary carbon drum rotated to primary? New carbon placed in primary drum?	Good Yes 7 1/7 Yes Yes Yes	Poor Vo PSI Vo No No
Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum?	Yes Yes Yes Yes	Poor (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum?	Good Yes Yes Yes	Poor No PSI No
<u>Discharge Piping</u> Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek. Pipe at creek clear?	Good Good Yes Good Yes	Poor Poor No Poor No

Miscellaneous		
Building and Site Remediation shed integrity. Shed ventilation acceptable? Repairs/work needed? Spill evidence?	Good Yes Yes Yes	3 E E E
Electrical and Heating Electric controls operational Heater operational	Yes Yes	No No

Miscellancous - (Continued)		
Access Vaults Overall vault integrity. Repairs needed to vaults?	Good Yes	Poor
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly?	666 × 8 × 2 × 8 × 2 × 2 × 2 × 2 × 2 × 2 × 2	No Hours No No No No

Sampling		***************************************
Primary carbon influent sampled?	Yes	
Primary carbon effluent sampled?	Yes	€N⊕5
Secondary carbon effluent sampled?	Yes	E
Compliance event?	Yes	™
Time sampled.		a.m./p.m.
Product sampled?	Yes	(NO)

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum:		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	85	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	•	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	1	Drumş
PPE/Solids drums	_	Drums
LNAPL drums	. 1	Drums
Drums labeled?	(ES)	No
Drums palletized?	(Yes)	No

Notes: DNAPC DRUM FULL

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	40	PSI
DNAPL pump pressure (departure)	40	PSI
Pneumatic settings adjusted?	Yes	(No
Discharge control setting (departure)	*	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.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	35	PS1
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	こ	PSI
Pneumatic settings adjusted?	Yes	NO NO
Discharge control setting (departure)	\wedge	Arrow
Refill control setting (departure)	\rightarrow	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	14	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
White warning light operational?		Nσ
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	(A)
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	Ø ₀

Technician:_	ART	KOSKE	
Date: 5	-31-00	,	

LNAPL/Groundwater System - (Continued)			
Transfer Pump and Piping			
Pump operational?	Yes	No	
Pump integrity.	Cipodi	Poor	
Flow meter operational?	Yes	No	
ransfer pump flow rate.	48	GPM	
Totalizer reading (cumulative volume).	445601	Gallons	
Water filters changed?	Yes	No	
Filter unit pressure (arrival/departure)	10/10	PSI	
Carbon Treatment Drums			
Primary carbon drum integrity.	Good	Poor	
Primary carbon drum leaks?	Yes	(No)	
Primary carbon drum pressure.	9	PŠI	
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.	1.5	PSI	
Secondary carbon removed for disposal?	Yes	(No)	
Polishing drum rotated to secondary?	Yes	000	
New carbon placed in secondary drum?	Yes	No.	
Their curbon placed in secondary drain.	103	ت	
Polishing carbon drum integrity.	Good	Poor	
Polishing carbon drum leaks?	Yes	No	
Polishing carbon drum pressure.	1	PSI	
Polishing carbon removed for disposal?	Yes	No	
New carbon placed in primary drum?	Yes		
, men canton passes in primary strain.			
Discharge Piping			
Pipe integrity in shed.	Good	Poor	
Pipe integrity at eatch basin.	600	Poor	
Pipe at catch basin clear?	6	No	
Pipe integrity at creek.		Poor	
Pipe at creek clear?		No	
Pipe at creek clear?	000	NO	

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

Miscellaneous - (Continued)		
Access Vaults Overall vault integrity. Repairs needed to vaults?	Good Yes	Poor
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly?	3444 3444	No Hours No No No No

Sampling		
Primary carbon influent sampled?	(Yes)	No
Primary carbon effluent sampled?	Yes	(A)
Secondary carbon effluent sampled?	(Yes)	No
Compliance event?	Yes	No
Time sampled.	1230	a.m. (0.m.)
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	45	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	~	Gallons
DNAPL/water to disposal drum.		Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	l i	Drums
PPE/Solids drums	_	Drums
LNAPL drums	Ý	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: ADJUSTED BUBBLER PRESS. TO 3 PSI

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	44	PSI
DNAPL pump pressure (departure)	44	PSI -
Pneumatic settings adjusted?	Yes	CHO
Discharge control setting (departure)	K	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.	Ciood	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?		(No)
LNAPL pump pressure (arrival)	35	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	3.8	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	<u> </u>	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	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and scal integrity.	Good	Coor
Decant valve integrity,	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No .
Separator cleaned?	Yes	No

Technician:	ART	KOSKE	
Date: 10	-16-	06	

<u>Table 4-1</u>

LNAPL/Groundwater System - (Continued)			
Transfer Pump and Piping			
Pump operational?	Yes	No	
Pump integrity.	Good	Poor	
Flow meter operational?	Ves >	No	
11	Tes	GPM	
Transfer pump flow rate.	201		
Totalizer reading (cumulative volume).	4483576	Gallons	
Water filters changed?	Yes	(10)	
Filter unit pressure (arrival/departure)	10	PSI	
Carbon Treatment Drums			
Primary carbon drum integrity.	Good	Poor	
Primary carbon drum leaks?	Yes	440	
Primary carbon drum pressure.	.5	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.		PSI	
Secondary carbon removed for disposal?	Yes	CNO3	
Polishing drum rotated to secondary?	Yes	No	
New carbon placed in secondary drum?	Yes		
New caroon placed in secondary druin.	165		
Polishing earbon drum integrity.	Good	Poor	
Polishing carbon drum leaks?	Yes	®	
Polishing carbon drum pressure.	J	PSI	
Polishing carbon removed for disposal?	Yes	No	
New carbon placed in primary drum?	Yes	No	
	1		
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. Shed ventilation acceptable? Repairs/work needed? Spill evidence?	Good Yes Yes Yes	Poor No
Electrical and Heating Electric controls operational Heater operational	Yes	No No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults Overall vault integrity. Repairs needed to vaults?	Good	Poor
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly?	(25) (25) (25) (25) (25) (25) (25) (25)	No Hours No No No No

Sampling		
Primary carbon influent sampled?	Yes	(No)
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	Altra
Compliance event?	Yes	The second
Time sampled.		a.m./p.m.
Product sampled?	Yes	(No.)

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	41	Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
Recovery from Oil-Water Separator		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	01	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	i	Drums
PPE/Solids drums		Drums
LNAPL drums	(Drums
Drums labeled?	(6)	No
Drums palletized?	(Yes)	No

Notes: RESTARTED SYSTEM

DNAPL System		
Operational upon arrival?	(Yes)	No '
DNAPL pump pressure (arrival)	40	PSI
DNAPL pump pressure (departure)	40	PSI
Pneumatic settings adjusted?	(Yes)	doca
Discharge control setting (departure)	枣	Arrow
Refill control setting (departure)	4	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.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.	2.4	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	→	Arrow
ANADA DA SA PARA SA PA		
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	(No.)
LNAPL top of pump depth.	14	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
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	(B)

Technic	ian:_	ART	Koskr	
Date:	6	-23-0	X 2	
Date.	·		2	

<u>Table 4-1</u>

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.	5,5	GPM
Totalizer reading (cumulative volume).	450079	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	16/10	PSI
	,	
Carbon Treatment Drums		·
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	6
Primary carbon drum pressure.	4.5	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	ZEO .
New carbon placed in primary drum?	Yes	No
No. of the second second		
Secondary carbon drum integrity.	Good)	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	1.5	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	NO
Polishing carbon drum pressure.		PSI
Polishing carbon removed for disposal?	Yes	(No)
New carbon placed in primary drum?	Yes	40
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	1.3	
Building and Site Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	 Yes	(No)
Spill evidence?	Yes	440
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		14.
Compressor operational?	Yes	No
Compressor hours.	3570	Hours
Oil level checked?	(Yes)	No
Oil level changed?	Yes	No
Compressor trap operating?	(Ves	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Sec.)	No

Sampling		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	NO I
Time sampled.		a.m./p.m.
Product sampled?	Yes	(No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	651.	Gallons
DNAPL/water to disposal drum.	-	Gallons
DNAPL/water to oil/water separator.		Gallons
Recovery from Oil/Water Separator	* .	·
Pure DNAPL to disposal drum.	,	Gallons
DNAPL/water to disposal drum.	<u> </u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	-	Drums
LNAPL drums	j .	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

DNAPL System		
Operational upon arrival?	Yes	- No
DNAPL pump pressure (arrival)	42	PSI
DNAPL pump pressure (departure)	45	PSI
Pneumatic settings adjusted?	Yes	MO)
Discharge control setting (departure)	A	Arrow
Refill control setting (departure)	4	Arrow
DNAPL Drum		
High level shut off operational?	(Vui)	No
Green warning light operational?		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?	(res	No
DNAPL top of pump depth.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	300	PSI
LNAPL pump pressure (departure)	3 ©	PSI
Bubbler tube operating pressure.	2.8	PSI
Pneumatic settings adjusted?	Yes	NO
Discharge control setting (departure)	^	Arrow
Refill control setting (departure)	4	Arrow
LNAPL Pump and Piping		1.0
LNAPL piping integrity.	Good	Poor .
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14	Feet
[보다 하셔트 - 그렇게 하는 사람이		
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Litaks present?	Yes	· (MD)
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	(Ves)	No
Separator cleaned?	Yes	No.

Technicia

or needs cleaning? or cleaned?	Ves Yes	No No	Repairs/work needed? Spill evidence?
ar at pl			Electrical and Heating
Co-29-06		<u> </u>	Electric controls operational Heater operational

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.	5.3	GPM
Totalizer reading (cumulative volume).	453971	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	10	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	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,	Z	PSI
Secondary carbon removed for disposal?	Yes	. No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	(D)
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.		PSI
Polishing carbon removed for disposal?	Yes	Ø0
New carbon placed in primary drum?	Yes	40
	1	
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?	₹es)	No
Repairs/work needed?	Yes	NO NO
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		4.4
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No :
	. 77 .	-
Air Compressor		- 4
Compressor operational?	Yes	Nő
Compressor hours.	3617	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	(NO)
Compressor trap operating?	(es)	No *
Regulator operating?	(CS)	No
Air lines performing properly?	(S)	No-~

Sampling		
Primary carbon influent sampled?	(es)	No
Primary carbon effluent sampled?	Yes	
Secondary carbon effluent sampled?	(Yes)	No
Compliance event?	Yes	No
Time sampled.	11:30	a.m/p.m.
Product sampled?	Yes	No

Recovery and Disposal	100	
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	て	Gallons
DNAPL/water to disposal drum.	1	Gallons
DNAPL/water to oil/water separator.		Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	1125	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	t	Drums
PPE/Solids drums		Drums
LNAPL drums	i	Drums
Drums labeled?	(ES)	No
Drums palletized?	Yes	No

Notes: RECORD SYSTEM READINGS, SAMPLE
INFLUENT/EFFLUENT, CLEANED DNAPE
PUMP, PUMPED DNAPL OUT OF
WELL, RESET PUMP SETTINGS, RECORDED WATER LEVEL READINGS

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	45	PSI
DNAPL pump pressure (departure)	45	PSI -
Pneumatic settings adjusted?	Yes	NO.
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)	4	Arrow
DNAPL Drum	ŀ	
High level shut off operational?	C	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.	2412	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	25	PSI
LNAPL pump pressure (departure)	25	PSI
Bubbler tube operating pressure.	3	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	个	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.	140	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
White warning light operational?	€ cs	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	roor
Decant valve integrity,	Good	Poor
LNAPL in separator?	Yes	(Ma)
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

Technician:	ART	KOSKC	
Date: 7	7.06		

<u>Table 4-1</u>

Transfer Pump and Piping Pump operational? Pump integrity. Flow meter operational? Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon drum rotated to primary? New earbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum pressure. Polishing drum rotated to secondary? New carbon placed in secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum integrity. Polishing carbon drum pressure. Polishing drum pressure. Polishing drum pressure. Polishing drum pressure. Polishing drum pres	LNAPL/Groundwater System - (Continued)		
Pump integrity. Flow meter operational? Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum pressure. Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum leaks? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum pressure. Polishing drum pressure. Polishing drum pressure. Polishing d	Transfer Pump and Piping		
Flow meter operational? Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum pressure. Polishing drum pressure. Polishing drum pressure. Polishing drum pressure. Polish	Pump operational?	(Yes)	No
Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum pressure. Primary carbon drum rotated to primary? New earbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum pressure. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum pressure. Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum pressure. Polishing drum pressure. Polishing drum pressure. Polishing drum pressure. Polishing dr	Pump integrity.	Good	Poor
Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon drum pressure. Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carb	Flow meter operational?	(Yes)	No
Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum leaks? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum	Transfer pump flow rate.	5.1	GPM
Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum leaks? Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum leaks? Secondary carbon drum leaks? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Poor	Totalizer reading (cumulative volume).	456625	Gallons
Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon drum pressure. Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Poor	Water filters changed?	Yes	M 27
Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum leaks? Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum pressure. Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon drum leaks? Polishing carbon drum pressure. Poor	Filter unit pressure (arrival/departure)	10	PSI
Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon drum pressure. Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Poor	Carbon Treatment Drums		
Primary carbon drum pressure. Primary carbon removed for disposal? Secondary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum pressure. Poor Poor Poor Poor Poor Poor Pipe integrity at catch basin. Pipe integrity at catch basin. Pipe integrity at catch basin. Pipe integrity at creek.	Primary carbon drum integrity.	Good	Poor
Primary carbon removed for disposal? Secondary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Poor	Primary carbon drum leaks?	Yes	No
Primary carbon removed for disposal? Secondary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Poor	Primary carbon drum pressure.	51/2	PSI
New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Poor Poor Poor Poor Poor Poor Poor Poo	Primary carbon removed for disposal?		©
Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Poor Poor Poor Poor Poor Poor Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek.	Secondary carbon drum rotated to primary?	Yes	NO
Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pist No Discharge Piping Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek.	New carbon placed in primary drum?	Yes	No
Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pist No Discharge Piping Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek.	Secondary earbon drum integrity	Good	Poor
Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum leaks? Poor Poor Poor Poor Poor Poor Poor Poo			_
Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek.		2	
New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek.	Secondary carbon removed for disposal?	Yes	(No)
Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek.	Polishing drum rotated to secondary?	Yes	£(
Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek.	New carbon placed in secondary drum?	Yes	No
Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek.	Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pischarge Piping Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek.		-	(No)
Polishing carbon removed for disposal? New carbon placed in primary drum? Pischarge Piping Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek.	_	•	
Discharge Piping Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek. Good Poor Poor Poor		Yes	No
Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek. Poor Poor Poor Poor Poor	New carbon placed in primary drum?	Yes	100
Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek. Poor Poor Poor Poor Poor			~
Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek. Poor Poor Poor Poor Poor	Discharge Piping		
Pipe at catch basin clear? Pipe integrity at creek. No Poor		Good	Poor
Pipe integrity at creek.	Pipe integrity at catch basin.	Good	Poor
	Pipe at catch basin clear?	Yes	No
Pipe at creek clear?	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	M
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 yault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		4
Compressor operational?	Yes	No
Compressor hours.	3659	Hours No
Oil level checked? Oil level changed?	Yes	NO 150
Compressor trap operating?	S	No
Regulator operating? Air lines performing properly?		No No

Sampling		
Primary carbon influent sampled?	Yes	(A)
Primary carbon effluent sampled?	Yes	100
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.		a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal	*	
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	~	Gallons
DNAPL/water to oil/water separator.	.3.3	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	025	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	t.	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	t.	Drums
Drums labeled?	Yes	No
Drums palletized?	(PES)	No

Notes: CLEANED SUMP VAULT WITH BLEACH FIXED GASKET ON OIL WATER SEPARATOR

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	42	PSI
DNAPL pump pressure (departure)	42	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	18	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.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.	3.0	PSI
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	Feet
Oil/Water Separator	<u>.</u>	
Water high level shut-off operational?	Yes	No
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: ART KOSKR	· · · · ·	
Date: 7.14-06		

F-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.	5.32	GPM
Totalizer reading (cumulative volume).	463673	Gallons
Water filters changed?	Yes	240
Filter unit pressure (arrival/departure)	10/10	PSI
Carbon Treatment Drums		-
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	CWO)
Primary carbon drum pressure.	612	PSI
Primary carbon removed for disposal?	Yes	No.
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	400
	·	
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary earbon drum pressure.	2	PSI
Secondary carbon removed for disposal?	Yes	(No)
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	©
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary 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 3	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	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?	Yes	No
Compressor hours.	3725	Hours
Oil level checked?	(CS)	No
Oil level changed?	Yes	Mo
Compressor trap operating?	VES	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Primary carbon influent sampled?	Yes	(A)
Primary carbon effluent sampled?	Yes	€405
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.		a.m./p.m.
Product sampled?	Yes	

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0125	Gallons
DNAPL/water to disposal drum.	-	Gallons
DNAPL/water to oil/water separator.	53	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	_	Gallons
DNAPL/water to disposal drum.	いころ	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	1	Drums
Drums labeled?	,Xes	No
Drums palletized?	Yes	No No

Notes: INCREASED REFILL TIME FOR DNAPLE PUMP

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	42	PSI
DNAPL pump pressure (departure)	42	PSI
Pneumatic settings adjusted?	Yes	
Discharge control setting (departure)	1	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		1
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	3 3	PSI
LNAPL pump pressure (departure)	3 3	PSI
Bubbler tube operating pressure.	2.8	PS1
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	Feet
autuu a		-
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
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:_	ART	KOSKR		
Date: '7-	19-00	0		

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good)	Poor
Flow meter operational?	Ves	No
Transfer pump flow rate.	5.3	GPM
Totalizer reading (cumulative volume).	466 298	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	10	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	80
Primary carbon drum pressure.	Ġ	PSI
Primary carbon removed for disposal?	Yes	NO
Secondary carbon drum rotated to primary?	Yes	(10)
New carbon placed in primary drum?	Yes	₹
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	(
Secondary carbon drum pressure.	142	PSI
Secondary carbon removed for disposat?	Yes	No
Polishing drum rotated to secondary?	Yes	₩D
New carbon placed in secondary drum?	Yes	<u>₹</u>
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1/2	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at eatch 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. Shed ventilation acceptable? Repairs/work needed? Spill evidence?	Good Yes Yes Yes	Poor No 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		No
Compressor hours.	3763	Hours
Oil level checked? Oil level changed?	Yes	No No
Compressor trap operating? Regulator operating?	Yes	No No
Air lines performing properly?	E	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.		a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	»25°	Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	144	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	F	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	. 1	Drums
LNAPL drums	1	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	50	PSI
DNAPL pump pressure (departure)	50	PSI
Pneumatic settings adjusted?	(Yes)	No
Discharge control setting (departure)	*	Arrow
Refill control setting (departure)	K	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	(Ma)
DNAPL top of pump depth.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	33	PSI
		PSI
LNAPL pump pressure (departure)	35	
Bubbler tube operating pressure.	3	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	<u> </u>	Arrow
Refill control setting (departure)	->	Arrow
LNAPL Pump and Piping		1
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	(Na)
LNAPL top of pump depth.	14	Feet
a		
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
l .		Poor
Separator cover and seal integrity.	Good	
Decant valve integrity.	Good	Poor
LNAPL in separator?	Ves >	. No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	(No)

Technician	1: ARTHUR	2 & KOSKIC
	2 22 26	

Pump operational? Pump integrity. Yes N Good Po	
Pump integrity. Good Po	
	0
	or
	lo .
Transfer pump flow rate. 5.0 GF	'M
Totalizer reading (cumulative volume). 46883 Gal	lons
Water filters changed? Yes N	o
Filter unit pressure (arrival/departure)	SI
Carbon Treatment Drums	
Primary carbon drum integrity. Good Po	or
Primary carbon drum leaks? Yes Yes	0
Primary carbon drum pressure. 51/2 P.	SI
Primary carbon removed for disposal? Yes	0
Secondary carbon drum rotated to primary? Yes	10
New carbon placed in primary drum? Yes	<u></u>
Secondary carbon drum integrity. Good Po	or
Secondary carbon drum leaks?	0
Secondary carbon drum pressure.	SI
Secondary carbon removed for disposal?	
Polishing drum rotated to secondary? Yes	0
New carbon placed in secondary drum? Yes	ฐ
Polishing carbon drum integrity. Good Po	or
Polishing carbon drum leaks?	6
II	SI
Polishing carbon removed for disposal?	0
New carbon placed in primary drum?	5
Discharge Piping	
	or
	or
	lo.
	or
	lo

Miscellaneous		
Building and Site Remediation shed integrity. Shed ventilation acceptable?	Good Yes	Poor No
Repairs/work needed? Spill evidence?	Yes 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?	Yes	No
Compressor hours.	3841	Hours
Oil level checked? Oil level changed?	Yes	No
Compressor trap operating? Regulator operating?	Yes	No 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.		a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	5	Gallons
DNAPL/water to oil/water separator.	72	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	255	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	1	Drums
Drums labeled?	(es)	No
Drums palletized?	Yes	No

Notes: DNAPC DRUM FULL

LNAPL/Groundwater System - (Continued)

Transfer Pump and Piping Pump operational?

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	48	PSI
DNAPL pump pressure (departure)	48	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)	2	Arrow
		*
DNAPL Drum		-
High level shut off operational?		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.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival? LNAPL pump pressure (arrival)	Yes	No PSI
LNAPL pump pressure (departure)	25	PSI
Bubbler tube operating pressure.	13	PSI
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	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
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.	0000	Poor
LNAPL in separator?	(Ses)	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	(No)

Technician:_	ART	KOSKE	
Date: 7-	31-06		

t unip operational		
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	5.06	GPM
Totalizer reading (cumulative volume).	468987	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	15	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	10	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.	2	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
		_
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1/2	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary 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?	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
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	3867	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	Mo
Compressor trap operating?	Yes	No
Regulator operating?	(Ves)	No
Air lines performing properly?	Yes	No

Sampling		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	NO NO
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	9:00	(a.m)p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	4	Gallons
DNAPL/water to oil/water separator.	_	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	Į	Gallons
DNAPL/water to disposal drum.		Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums)	Drums
PPE/Solids drums	ī	Drums
LNAPL drums	1	Drums
Drums labeled?	(Yes)	No
Drums palletized?	Yes	No

Notes: CLEANED FLOW METER

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	50	PSI
DNAPL pump pressure (departure)	50	PSI
Pneumatic settings adjusted?	Yes	(40)
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)	K	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.	24/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Ves)	No
LNAPL pump pressure (arrival)	35	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	3.4	PSI.
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure) .	1	Arrow
Refill control setting (departure)	\rightarrow	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	· Swed	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	W
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

Date: 8-10-06

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.	5.3	GPM
Totalizer reading (cumulative volume).	484cc	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	12/12	PSI
		politica
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	71/2	PSI
Primary carbon removed for disposal?	Yes	(40)
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.	て	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	(No)
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	リマ	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
	2	
<u>Discharge Piping</u>		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Tes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Misceffuncous			
Building and Site Remediation shed integrity. Shed ventilation acceptable?	Good Yes	Poor No	
Repairs/work needed?	Yes	No	
Spill evidence?	Yes	(No)	
Electrical and Heating		1	
Electric controls operational	Yes	No	
Heater operational	Yes	No	

Miscellaneous - (Continued)	e	
Access Vaulis		Poor
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	(No)
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	3963	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	(MD)
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	₩ (**
Time sampled.		a.m./p.m.
Product sampled?	Yes	

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	2	Gallons
DNAPL/water to oil/water separator.	-	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	1	Gallons
Product, Carbon, Waste Storage	<i>*</i>	
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	ť	Drums
LNAPL drums	1	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: REPLACED LEAKING AR.

DNAPL System		,
Operational upon arrival?		No
DNAPL pump pressure (arrival)	45	PSI
DNAPL pump pressure (departure)	45	PSI
Pneumatic settings adjusted?	Yes	(NO)
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	K	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	(40)
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	40
DNAPL top of pump depth.	2412	Feet

LNAPL/Groundwater System	1.4	
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	3	PSI
Pneumatic settings adjusted?	Yes	
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	\rightarrow	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	- Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14	Feet
Oil/Water Separator		
Water high level shut-off operational?	(res)	No
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

Technici	an: ART KOSKE	
Date:	8-23-06	

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.	4.9	GPM
Totalizer reading (cumulative volume).	485 ZLL	Gallons
Water filters changed?	Yes	NO
Filter unit pressure (arrival/departure)	12	PSI
		·
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	712	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.	2	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	(Yes)	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1/2	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary 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?	Yes	MAN
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating	ł	
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.	4062	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	res	No

Sampling		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	NO NO
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.		a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		,
Pure DNAPI, to disposal drum.	-	Gallons
DNAPL/water to disposal drum.	1	Gallons
DNAPL/water to oil/water separator.	_	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	-	Gallons
DNAPL/water to disposal drum.	•	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	j	Drums
Spent carbon drums	7	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	<u>(ES)</u>	No .
Drums palletized?	رقاع	No

Notes.

CLEANED FLOWMETER

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	50	PSI
DNAPL pump pressure (departure)	50	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	K	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Tes S	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
		a pagement of the first
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	241/2	Feet 4

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	3	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.	14	Feet
Oil/Water Separator	_	
Water high level shut-off operational?	Yes	. No
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:_	ART	KOSKE	
Date: 8	30-00	0	

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.	5.3	GPM
Totalizer reading (cumulative volume).	489810	Gallons
Water filters changed?	Yes	(No)
Filter unit pressure (arrival/departure)	10	PSI
(annual production and partial	-/-	
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	4/2	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.	Z	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	(No.)
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	172	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	MO)
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	(Ves)	No
Pipe integrity at creek.	Good	Poor
Pipe at creck 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	i i	
Compressor operational?	(es)	No
Compressor hours.	4088	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.	900	(a.m) p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum Pure DNAPI, to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	1790	Gallons Gallons Gallons
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	1/2	Gallons Gallons
Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	2	Drums Drums Drums
LNAPL drums Drums labeled? Drums palletized?	Ves Ves	Drums No No

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	52	PSI
DNAPL pump pressure (departure)	52	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)	L	Arrow
DNAPL Drum		
High level shut off operational?	(Ves)	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.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	3.4	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.	14	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
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:	ART	KOSKIZ	 	
Date: 9	-11-00	9		

<u>Table 4-1</u>

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.	5.4	GPM	
Totalizer reading (cumulative volume).	506 Z108	Gallons	
Water filters changed?	Yes	No	
Filter unit pressure (arrival/departure)	12/17	PSI	
Carbon Treatment Drums			
Primary carbon drum integrity.	Good	Poor	
Primary carbon drum leaks?	Yes	No	
Primary carbon drum pressure.	612	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.	11/2	PSI	
Secondary carbon removed for disposal?	Yes	No	
Polishing drum rotated to secondary?	Yes	No	
New carbon placed in secondary drum?	Yes	No	
Polishing carbon drum integrity.	Good	Poor	
Polishing carbon drum leaks?	Yes	No	
Polishing carbon drum pressure.	1	PSI	
Polishing carbon removed for disposal?	Yes	No	
New carbon placed in primary 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?	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
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	4133	Hours
Oil level checked?	`Ces	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No -
Regulator operating?	A	No
Air lines performing properly?	Ves	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.		a.m./p.m.
Product sampled?	Yes	

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	-	Gallons
DNAPL/water to disposal drum.	3	Gallons
DNAPL/water to oil/water separator.	30	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	j	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	Z	Drums
PPE/Solids drums	1	Drums
LNAPL drums	7	Drums
Drums labeled?	(Yes)	No
Drums palletized?	Yes	No

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	53	PSI -
DNAPL pump pressure (departure)	53	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	V	Arrow
DNAPL Drum		-
High level shut off operational?	(Ve)	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Gioud	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.	241/2	reet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	38	PSI
LNAPL pump pressure (departure)	38	PSI
Bubbler tube operating pressure.	3	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
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: ART KOSKIC

Date: 9-21-06 19-25-06

¥08	No
Good	Poor
(Ves)	No
4.60	GPM
527275	Gallons
(Yes	No
16/16	PSI
Good	Poor,
Yes	No
11/2	PSI
Yes	CNO
Yes	No
Yes	(No)
Good	Poor
Yes	(No)
1/2	PSI
Yes	(No)
Yes	(No)
Yes	(E)
(Good)	Poor
Yes	(No
1	PSI
Yes	No
Yes	(No)
Good	Poor
	Poor
	No
	Poor
(Ves 5	No
	Good Yes

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

Miscellaneous - (Continued)		
Access Vaults Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	40
Air Compressor		
Compressor operational? Compressor hours.	4183	No Hours
Oil level checked? Oil level changed?	(Yes)	- No No
Compressor trap operating? Regulator operating?		No No
Air lines performing properly?		No

Sampling		
Primary carbon influent sampled?	Yes	(No)
Primary carbon effluent sampled?	Yes	Non
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.		a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	2 2	Gallons Gallons Gallons
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	.125	Gallons Gallons
Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?	Z 	Drums Drums Drums Drums No

DNAPL System

Operational upon arrival?

DNAPL pump pressure (arrival)

DNAPL pump pressure (departure)

Pneumatic settings adjusted?

Discharge control setting (departure)

Refill control setting (departure)

DNAPL Drum

Leaks present?
Decant valve integrity.

DNAPL Pump and Piping

DNAPL piping integrity.

DNAPL pump cleaned?
DNAPL top of pump depth.

High level shut off operational? Green warning light operational? DNAPL drum container integrity.

(ES)	No
52	PSI
52	PSI
Yes	
K	Arrow
4	Arrow
Yes Yes Good Yes Good	No No Poor No Poor

Poor No Feet

Good Yes

T		
LNAPL/Groundwater System	•	
Operational upon arrival?	(Yes	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	3.2	PSU
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	<u> </u>	Arrow
' '		ĺ
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	NO
LNAPL top of pump depth.	14	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
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:_	ART	KOSKIR	
Date:	7-28-	06	

Table 4-1

Transfer Pump and Piping Pump operational? Pump integrity. Flow meter operational? Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum pressure. Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum leaks? Polishing drum rotated to secondary? New carbon placed in secondary? New carbon drum pressure. Polishing carbon drum integrity. Polishing carbon drum pressure. Polishing drum pressure. Polishing drum pressur	LNAPL/Groundwater System - (Continued)		
Pump integrity. Flow meter operational? Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum leaks? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum integrity. Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon drum leaks? Secondary carbon drum leaks? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon placed in primary drum? Pressure fartive volume. Pres	Transfer Pump and Piping		1
Pump integrity. Flow meter operational? Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum leaks? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum integrity. Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon drum leaks? Secondary carbon drum leaks? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon placed in primary drum? Pressure fartive volume. Pres	Pump operational?	Yes	No
Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon placed in primary drum? Discharge Piping Pipe integrity at catch basin. Good Poor Poor	Pump integrity.		Poor
Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum integrity. Polishing drum rotated the secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon placed in primary drum? Discharge Piping Pipe integrity in shed. Pipe integrity at catch basin.	Flow meter operational?	Yes	No
Water filters changed? Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon drum integrity. Secondary carbon drum pressure. Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon placed in primary drum? Discharge Piping Pipe integrity in shed. Pipe integrity at catch basin.	Transfer pump flow rate.	3.9	GPM ·
Filter unit pressure (arrival/departure) Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum pressure. Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum pressure. Secondary carbon drum leaks? Secondary carbon drum pressure. Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon placed in primary drum? Discharge Piping Pipe integrity in shed. Pipe integrity at eatch basin.	Totalizer reading (cumulative volume).	535249	Gallons
Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum pressure. Primary carbon drum prostated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum integrity. Secondary carbon drum pressure. Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon placed in primary drum? Polishing carbon placed in primary drum? Discharge Piping Pipe integrity in shed. Pipe integrity at eatch basin.	Water filters changed?	Yes	
Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon drum leaks? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon placed in primary drum? Polishing carbon placed in primary drum? Possiblarge Piping Pipe integrity in shed. Pipe integrity at eatch basin.	Filter unit pressure (arrival/departure)	16	PSI
Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon placed in primary drum? Polishing carbon placed in primary drum? Posspharge Piping Pipe integrity in shed. Pipe integrity at eatch basin.	<u>Carbon Treatment Drums</u>	·	* *
Primary carbon drum pressure. Primary carbon removed for disposal? Secondary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum integrity. Polishing carbon drum pressure.	Primary carbon drum integrity.	Good	Poor
Primary carbon removed for disposal? Secondary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum integrity. Polishing carbon drum pressure.	Primary carbon drum leaks?		
Secondary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon placed in primary drum? Discharge Piping Pipe integrity in shed. Pipe integrity at catch basin.	Primary carbon drum pressure.	9112	PSI
New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Possibling carbon frum Pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Possibling carbon frum Pressure. Polishing carbon removed for disposal? No Poor Poor Poor Poor Poor Poor Poor Po	Primary carbon removed for disposal?	Yes	(Ma)
Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Poor No No Poor	Secondary carbon drum rotated to primary?	Yes	<u>a</u>
Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated the secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon placed in primary drum? Possure Piping Pipe integrity in shed. Pipe integrity at catch basin.	New carbon placed in primary drum?	Yes	
Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pisson Discharge Piping Pipe integrity in shed. Pipe integrity at catch basin.	Secondary carbon drum integrity.	Cood	Poor
Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pischarge Piping Pipe integrity in shed. Pipe integrity at catch basin.	Secondary carbon drum leaks?	Yes	(No)
Polishing drum rotated to secondary? New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pischarge Piping Pipe integrity in shed. Pipe integrity at eatch basin.	Secondary carbon drum pressure.	11/12	PSI
New carbon placed in secondary drum? Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pischarge Piping Pipe integrity in shed. Pipe integrity at catch basin.	Secondary carbon removed for disposal?	Yes	(No)
Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pischarge Piping Pipe integrity in shed. Pipe integrity at catch basin.	Polishing drum rotated to secondary?	Yes	No
Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pischarge Piping Pipe integrity in shed. Pipe integrity at eatch basin. Yes No PSI No Por Poor Poor	New carbon placed in secondary drum?	Yes	(40)
Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum? Pischarge Piping Pipe integrity in shed. Pipe integrity at catch basin. PSI No Yes No No Poor Poor	Polishing carbon drum integrity.	Good	Poor
Polishing carbon removed for disposal? New carbon placed in primary drum? Pipc integrity in shed. Pipc integrity at catch basin. Piolishing carbon removed for disposal? Yes Yes No No Poor Poor Poor	Polishing carbon drum leaks?	Yes	No
New carbon placed in primary drum? **Proceedings** Discharge Piping** Pipe integrity in shed. Pipe integrity at catch basin. **Good** Poor** Good** Poor** Po	Polishing carbon drum pressure.	(PSI
Discharge Piping Pipe integrity in shed. Pipe integrity at eatch basin. Good Poor	Polishing earbon removed for disposal?	Yes	No
Pipe integrity in shed. Pipe integrity at eatch basin. Good Poor Poor	New carbon placed in primary drum?	Yes	No
Pipe integrity at eatch basin. Good Poor	Discharge Piping		
	Pipe integrity in shed.	Good	Poor
	Pipe integrity at eatch basin.	Good	Poor
Pipe at catch basin clear?	Pipe at catch basin clear?	Yes	No
Pipe integrity at creek. Good Poor	Pipe integrity at creek.	Good	Poor
Pipe at creek clear? Yes No	Pipe at creek clear?	Yes	No

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

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults Overall vault integrity. Repairs needed to vaults?	Good Yes	Poor No
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly?	7202 7202 78 78 78	No Hours No No No No No

Sampling		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	6
Secondary carbon effluent sampled?	Yes	No
Compliance event?	(S)	No .
Time sampled.	9:30	(a.m.)n.m.
Product sampled?	Yes	No

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

No

Poor / No

GPM

Gallons

No

No

LNAPUGroundwater System - (Continued)

Totalizer reading (cumulative volume).

<u>Transfer Pump and Piping</u> Pump operational?

Flow meter operational? Transfer pump flow rate.

Water filters changed?

Pipe at creek clear?

Pump integrity.

Former Gastown Manufactured Gas Plant Site

DNAPL System		
Operational upon arrival?	Yes	No
DNAPI, pump pressure (arrival)	46	PSI
DNAPL pump pressure (departure)	46	PSI
Procumatic settings adjusted?	Yes	(NI)
Discharge control setting (departure)	17	Viton
Refill control setting (departure)	· K	Arron
DNAPL Drum		
High level shot off operational?		No ·
Green warning light operational?		. No
DNAP1, drum container integrity.	Cini	Poor
Leaks present?	Yes	(NII)
Decant valve integrity.	Ciond	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	. Ciwel	Poor
DNAPL pump cleaned?	Yes	No
DNAP, top of pump depth.	241/2	Feet

LNAPUGroundwater System		
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Preumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure)	Yes HO HO 3.4 Yes ↑	No PSI PSI PSI PSI Afron Arrow
LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.	(Good Yes	Poor No Feet
Oil/Water Separator Water high level shut-off operational? White warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning? Separator cleaned?	Yes Yes Good Group Yes Fes	No No Poor Poor Poor Poor No No No

Technician: ART	KOSKE

Date: 10-20-06

	Filter unit pressure (arrival/departure)	36/15	1/51
	Carbon Treatment Drums		
	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)
		1:	
	Secondary carbon drum integrity.	(inod)	Poor
	Secondary carbon drum leaks?	Yes	No
	Secondary earbon drum pressure.	U	PSI
	Secondary curbon removed for disposal?	Yes	®
1	Polishing drum rotated to secondary?	(3)	No
	New carbon placed in secondary drum?	Yes	(No)
			Ŷ
1	Polishing earbon drum integrity.	Good	Poor
	Polishing carbon drum leaks?	Yes	$\overline{\mathbb{N}}$
1	Polishing carbon drum pressure.	1/2	i'si -
-	Polishing carbon removed for disposal?	Yes	Nn
	New carbon placed in primary drum?	Yes	(No.)
1		1	~
	Discharge Piping		
	Pipe integrity in shed.	Good	Poor
	Pipe integrity at catch basin.	Gnod	Poor
1	Pipe at catch basin clear?	(E)	No
1	Pipe integrity at creek.	Good	Poor

Miscellaneous	٠	
Building and Site Remediation shed integrity. Shed ventilation acceptable? Repairs/work needed? Spill evidence?	Good Ves Ves Ves	Poor No No No
<u>Electrical and Heating</u> Electric controls operational Heater operational	Yes	.No No

Good	Poor
Yes	No
4787	No Hours
(E)	No
Yes	No
	No No
	4287 (res Yes

P U		
Sampling		
Primary carbon influent sampled?	Yes	(M)
Primary carbon effluent sampled?	Yes	Am
Secondary earbon effluent sampled?	Yes	
Compliance event?	Yes	
Time sampled.		a.m./p.m.
Product sampled?	Yes	(No)

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	10	Gallons
DNAPL/water to oil/water separator.	35	Gallons
Recovery from Oil Water Separator		,
Pure DNAPI, to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
·		l
Product, Carbon Waste Storage	·	
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums Inheled?	(705)	No
Drums palletized?	(CEE)	No

Notes: PRIMARY CARBON DRUM LIEAKING
TOOK OFF LINE, ORDERED NEW
DRUM. BACK FLUSHED SECONDARY
CARBON DRUM. ADJUSTED FLOW
TO H.9 GPM, HAD TO SHUT
SYSTEM DOWN DUE TO SECONDARY
BIOFOULING PROBLEMS

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	52	PSI
DNAPL pump pressure (departure)	52	j irst
Pneumatic settings adjusted?	(Tes)	No
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)	K	Arrow
		'
DNAPI, Drum		
High level shut off operational?	Yes	No
Green warning light operational?	(iii)	Nο
DNAPL drum container integrity.	Good	Poor
Leaks prescit?	Yes	Nu
Decant valve integrity.	(lind)	Poor
'		
DNAP (. Pump and Piping		
DNAP, piping integrity.	(iond)	Poor
DNAPL pump cleaned?	Yes	
DNAPL top of pump depth.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump[pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	rsi
Bubbler tube operating pressure.	_3	PSI
Preumatic settings adjusted?	Yes	
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	->	Arrow
1		
LNAPL Pump and Piping		·
LNAPL piping integrity.	(Good)	Poor
LNAI'L pump cleaned?	Yes	(NO)
LNAPL top of pump depth.	14	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and scal integrity.	Good	l'oor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Ves	Ņο
Separator needs cleaning?	YES	No
Separator eleaned?	Yes	No

Technic	ian: ART	KOSKE	
	,		
Date:	10-30	-06	

LNAPL/Groundwater System - (Continued)				
Transfer Pump and Piping		} .		
Pump operational?	Yes	No		
l'ump integrity.	Good	Poor		
Flow meter operational?	Yes	√ No		
Transfer pump flow rate.	5.1	GPM		
Totalizer reading (cumulative volume).	583474	Gallons		
Water filters changed?	Yes	No		
Filter unit pressure (arrival/departure)	40/10	PSI		
Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure.				
Primary carbon drum integrity.	Good	Poor		
Primary carbon drum leaks? 11	Yes	No		
Primary curbon drum pressure.		PSI		
U	Yes	No		
Primary carbon removed for disposal? Secondary carbon drum rotated to primary? New carbon placed in primary drum?	Yes	No		
New carbon placed in primary drum?	Yes	No		
	1 .			
Secondary earbon drum integrity.	Good	Poor		
Secondary carbon drum leaks?	Yes	(No)		
Secondary earbon drum pressure.	417	I'SI		
Secondary earbon removed for disposal?	Yes	(No)		
Polishing drum rotated to secondary?	Yes	3		
New carbon placed in secondary drum?	Yes	No		
	, , ,			
Polishing carbon drum integrity.	Good	Poor		
Polishing carbon drum leaks?	Yes	(No.)		
Polishing carbon drum pressure.	72	PSI		
Polishing carbon removed for disposal?	Yes	(No)		
New carbon placed in primary drum?	Yes	(NO)		
Discharge Piping				
Pipe integrity in shed.	Good	Poor		
Pipe integrity at eatch basin.	Good	Poor		
Pipe at catch basin clear?	<u></u>	No		
Pipe integrity at creek.	Good	Poor		
Pipe at creek clear?	(Yes)	No		

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

Miscellancous - (Continued)		
Access Vaults Overall vault integrity. Repairs needed to vaults?	Good Yes	Pour No
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly?	1210 1210 1210 1210	No Hours No No No No No

Sampling		
Primary carbon influent sampled?	(Yes)	No
Primary carbon effluent sampled?	(Yes)	No
Secondary earbon effluent sampled?	Yes	(No)
Compliance event?	Yes	No
Time sampled.	10:35	(i.m.)p.m.
Product sampled?	Yes	(No)

Recovery and Disposal		
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	- - 7 73	Gallons Gallons Gallons
Recovery from Oil Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons
Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	3	Drums Drums Drums
LNAPI, drums Drums labeled? Drums palletized?	98	Drums No No

<u>Transfer Pump and Piping</u> Pump operational?

Flow meter operational? Transfer pump flow rate.

Water filters changed?

Pump integrity.

LNAPL/Groundwater System - (Continued)

Totalizer reading (cumulative volume).

Filter unit pressure (arrival/departure)

Primary carbon removed for disposal?

New carbon placed in primary drum?

Secondary carbon drum rotated to primary?

Primary carbon drum integrity.

Primary carbon drum pressure.

Primary carbon drum leaks?

Carbon Treatment Drums OFF LINE

No

Gallons

No

PSI

Роог

PSI

No

No

No

Good

Yes

Yes

Yes

Yes

Poor No GPM

Former Gastown Manufactured Gas Plant Site

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	52	PSI
DNAPL pump pressure (departure)	52	PSI
Pneumatic settings adjusted?	Yes	No.
Discharge control setting (departure)	K	Arron
Refill control setting (departure)	K	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?		No
DNAPL drum container integrity.	اسين	Poor
Leaks present?	Yes	(NI)
Decant valve integrity.	Cinnd	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	24.5	Feet

LNAPL/Groundwater System			
Operational upon arrival?	(222)	No.	
LNAPL pump pressure (arrival)	38	PSI	
LNAPL pump pressure (departure)	38	PSI	
Bubbler tube operating pressure.	2.8	PSI	
Pneumatic settings adjusted?	Yes	No	
Discharge control setting (departure)	1	Arrow	
Refill control setting (departure)	->	Arrow	
LNAPL Pump and Piping			
LNAPL piping integrity.	Ciond	Poor	
LNAPL pump cleaned?	Yes	No	
LNAPL top of pump depth.	14	Feet	
Oil/Water Separator			
Water high level shut-off operational?	(YES)	No	
White warning light operational?	(3)	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?	769	No	
Separator needs eleaning?	1	No	
Separator cleaned?	Yes	(No)	

Secondary carbon drum integrity,	Cinul	Poor
Secondary carbon drum leaks?	Yes	(No
Secondary earbon drum pressure.	31/2	PSI
Secondary earbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	348
New carbon placed in secondary drum?	Yes	W.
	_ '	_
Polishing carbon drum integrity,	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1/2	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
Discharge Piping		l
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	(TES)	No
Pipe integrity at creek.	Ciood	Poor
Pipe at creek clear?	Yes	No
Miscellaneous	ť	
Building and Site	ľ	
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	765	No
Repairs/work needed?	Yes	140
Spill evidence?	Yes	No
•		E
Electrical and Heating		
Electric controls operational	(G)	No
Heater operational		No

Miscellaneous - (Continued)		
Access Vaults)	
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	(3)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	4354	Hours
Oil level checked?	(cs)	No
Oil level changed?	Yes	
Compressor trap operating?	(Yes)	No
Regulator operating?	(Tes	No
Air lines performing properly?	(ES)	No

Sampling		
Primary carbon influent sampled?	Yes	(No)
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No.
Compliance event?	Yes	
Time sampled.		a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPI to disposal drum.	-	Gallons
DNAPL/water to disposal drum.	7	Gallons
DNAPL/water to oil/water separator.	10	Gallons
Recovery from Oil Water Separator		j
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Callons
Product, Carbon, Waste Storage		
DNAPL, drums on-site (full and fractional)		Drums
Spent carbon drums	3	Drums
PPE/Solids drums	1	Drums
LNAPL drums		Drums
Drums labeled?	(B)	No
Drums palletized?	(6)	No

Notes: ADJUSTED FLOW TO 56PM CLEANED FLOW METER

DNAPL System		
Operational upon arrival? DNAPL pump pressure (arrival) DNAPL pump pressure (departure) Pneuma ie settings bdjusted? Discharge control setting (departure) Refill control setting (departure)	Yes 54 50 Yes 4	PSI PSI PSI Arrow Arrow
DNAPL Drum High level slidt off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity.	Yes Gund Yes Gund	No No Poor No Poor
DNAPL Pump and Pipling DNAPL piping integrity. DNAPL pump cleaned? DNAPL top of pump depth.	Good Yes Z4.5	Poor No Feet

LNATL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	.3	PSI
Pneumatic settings adjusted?	Yes	(No
Discharge control setting (departure)	T	Arron
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	Feet
Oil/Water Separator		,
Water high level shut-off operational?	(Ycs)	No
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?	├ ₹€	No
Separator needs cleaning?	(Yes)	No
Separator cleaned?	Yes	(No)

Technician:_	ART	KOSKE	 	
Date:	11-22	-06		

<u> Table 4-1</u>

LNAPL/Groundwater System - (Continued)			
Transfer Pump and Piping			
l'ump operational?	(عيد)	No	
Pump integrity.	Good	Poor	
Flow meter operational?	Yes	No	
Transfer pump flow rate.	1.5	GPM	
Totalizer reading (cumulative volume).	605144	Gallons	
Water filters changed?	(Yes)	No	
Filter unit pressure (arrival/departure)	35/12	PSI	
_			
Carbon Treatment Drums OFF LINE			
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 earbon drum rotated to primary?	Yes	No	
New carbon placed in primary drum?	, Yes	No	
Secondary earbon drum integrity.	(inod)	Poor	
Secondary carbon drum leaks?	Yes	6	
Secondary carbon drum pressure.	4.5	PSI	
Secondary carbon from pressure. Secondary carbon removed for disposal?	Yes		
, ,	Yes		
Polishing drum rotated to secondary?	,	84	
New carbon placed in secondary drum?	Yes	340	
Polishing carbon drum integrity,	Good	Poor	
Polishing carbon drum leaks?	Yes	(III)	
Polishing carbon drum pressure.	.5	PSI	
Polishing earbon removed for disposal?		(NO)	
New carbon placed in primary 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?	(Tes	No	

Miscellaneous	t,	
Building and Site Remediation shed integrity. Shed ventilation acceptable? Repairs/work needed? Spill evidence?	Gnod Yes Yes Yes	Poor No No
<u>Electrical and Heating</u> Electric controls operational Heater operational		No No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		tik, order typingt.
Access Vaults Overall vault integrity. Repairs needed to vaults?	(innd) Yes	Piny
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly?	Yes 4382 Yes Yes	No Hours No No No No

Sampling		
Primary carbon influent sampled?	Yes	(No)
Primary earbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	(NI)
Compliance event?	Yes	
Time sampled.		a.m./p.m.
Product sampled?	Yes	

Recovery and Disposal		
Recovery from DNAPL Drum Pure DNAPL to disposal drum, DNAPL/water to disposal drum, DNAPL/water to oil/water separator.	7 20	Gallons Gallons Gallons
Recovery from Oil:Water Separator Pure DNAP1, to disposal drum, DNAPL/water to disposal drum,		Gallons Gallons
Product, Carbon, Il'aste Starage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?	1 3 1	Drums Drums Drums Drums No
Drums palletized?		No

Notes: DNAPL DRUM FULL

	DNAPL System		
	Operational upon arrival?	(E)	No
1	DNAPL pump pressure (arrival)	42	PSI
ı	DNAPL pump pressure (departure)	42	PSI
1	Pneumatic settings adjusted?	Yes	(No.
	Discharge control setting (departure)	7	Arrow
	Refill control setting (departure)	V	Arrow
	DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity.	Yes Giand Yes Giand	No No Poor No Poor
	DNAPL Pump and Piping DNAPL piping integrity. DNAPL pump cleaned? DNAPL top of pump depth.	Ciond Tes Z-1 1/7	Poor No Feet

	·	
LNAPL/Groundwater System		
Operational upon arrival?	(Yes	No
LNAPL pump pressure (arrival)	35	PSI -
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	2.5	PSI
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	Feet
Oil/Water Separator	1	1
Water high level shut-off operational?	Yes	No
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?		No
Separator needs cleaning?	YES	No
Separator cleaned?	Yes	No

Technic	ian: ART	KOSKE	
Date:	11-29-0	م)(ہ	

<u> </u>		
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.	4.4	GPM
Totalizer reading (cumulative volume).	612337	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	14/14	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	Ц	PSI
Primary carbon removed for disposal?	Yes	(NO)
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
	1 '.	
Secondary earbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	312	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drun?	Yes	No
		9
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	(No)
Polishing carbon drum pressure.	1/2	PSI
Polishing carbon removed for disposal?	Yes	(No)
New carbon placed in primary drum?	Yes	№
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at eatch basin.	Good	Poor
Pipe at catch basin clear?	\(\text{\text{\$\frac{1}{2}}} \)	No
Pipe integrity at creek,	Good	Poor
Pipe at creek clear?) Ves	No

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

Miscellaneous - (Continued)		
Access Vaults Overall vault integrity. Repairs needed to vaults?	Good	Poor No
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly?	(E) 4710 4710 1710 1710 1710 1710 1710 1710	No Hours No No No No

Sampling		
Primary carbon influent sampled?	6 6	No
Primary carbon effluent sampled?	Yes	6
Secondary carbon effluent sampled?	(E)	No
Compliance event?	<u>(6)</u>	No
Time sampled.	9:30	a.m./p.m.
Product sampled?	Yes	(ND)

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPI to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	3_	Gallons
Recovery from Oil Water Separator		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	7	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	(Yes)	No
Drums palletized?	Yes	No

Notes: INSTALLED NEW POLISHING DRUM

DNAPL System	•	
Operational upon arrival?	(E)	No
DNAPL pump pressure (arrival)	44	PSI
DNAPL pump pressure (departure)	44	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	K	Arron
Refill control setting (departure)	K	Arrow
DNAPL Drum		
High level shut off operational?	(3)	. No
Green warning light operational?	705	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	
Decant valve integrity.	inod	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	241/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	3	PSI
Pneumatic settings adjusted?	Yes	(m)
Discharge control setting (departure)	小	Arrow
Refill control setting (departure)	-	Arrow
	,	
LNAPL Pump, and Piping		1
LNAPL piping integrity.	(Good)	Poor
LNAPE pump cleaned?	Yes	(No)
LNAPL top of pump depth.	14	Feet
Oil/Water Separator		
Water high level shut-off operational?	(6)	No
White warning light operational?	Ves	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	(No)
Separator cover and seal integrity.	Cood	Poor
The second secon		Poor
Decant valve integrity.	Good	1
LNAPL in separator?	Yes	No
Separator needs cleaning?	(CES)	No.
Separator cleaned?	Yes	(No)

Technician: Al	ROSKE	
Date: 12 -	4-06	

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping Pump operational? Pump integrity. Flow meter operational? Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure)	(25) (30) (45) (40) (40) (40) (40) (40) (40) (40) (40	No Poor No GPM Gallons No PSI
Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon drum pressure. Primary carbon drum rotated to primary? New carbon placed in primary drum? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum?	Yes	F (Z (Z) Z (Z) Z (Z (Z) Z (
Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon placed in primary drum?	Good Yes 1/2 Yes Yes	Poor VE VE VE VE
Discharge Piping Pipe integrity in shed. Pipe integrity at eatch basin. Pipe at eatch basin clear? Pipe integrity at creek. Pipe at creek clear?	Good Good Good Ves	Poor Poor No Poor No
Miscellancous		

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

Miscellaneous - (Continued)		
Access Vaulis		Poor
Overall vault integrity.	Good	1.001
Repairs needed to vaults?	Yes	€
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	4428	Hours
Oil level checked?	(Tes)	No
Oil level changed?	Yes	(NII)
Compressor trap operating?	(Tes)	No
Regulator operating?	(CES)	No
Air lines performing properly?		No

Sampling		
Primary carbon influent sampled?	Yes	(40)
Primary carbon effluent sampled?	Yes	000
Secondary carbon effluent sampled?	Yes	(1144)
Compliance event?	Yes	\\(\tau_{(i)}\)
Time sampled.		a.m./p.m.
Product sampled?	Yes	(N)

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

	DNAPL System		
	Operational upon arrival?	Yes	No
٠.	DNAPL pump pressure (arrival)	50	PSI
	DNAPL pump pressure (departure)	50	PSI-
	Pneumatic settings adjusted?	Yes	No
	Discharge control setting (departure)	7	Arrow
i	Refill control setting (departure)	1	Arrow
	DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity.	Yes Good Yes	No No Poor Poor
	DNAPL Pump and Piping DNAPL piping integrity. DNAPL pump cleaned? DNAPL top of pump depth.	(iood) Yes	Poor No Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPI. pump pressure (arrival)	3.5	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	3.60	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	本	Arrow
Refill control setting (departure)	->	Arrow
LNAPL Pump and Piping LNAPL piping integrity. LNAPL pumb cleaned? LNAPL top of pump depth.	Yes 14	Poor No Feet
Oil/Water Separator Water high level shut-off operational? White warning light operational? Separator vessel integrity.	Yes Yes Good	No No Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	(76)	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	(No)

Technician:	ART	KOSKE	•
Date: 12	- 15-6	96	

F		
LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	(cs)	No
Transfer pump flow rate.	4.3	GPM
Totalizer reading (cumulative volume).	633178	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	20/20	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	(4)
Primary carbon drum pressure.	(0	PSI
Primary carbon removed for disposal?	Yes	(No)
Secondary carbon drum rotated to primary?	Yes	(N)
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	l Good	Poor
Secondary carbon drum leaks?	Yes	
Secondary carbon drum pressure.	7.6	PSI
Secondary carbon removed for disposal?	Yes	(No)
Polishing drum rotated to secondary?	Yes	NO
New carbon placed in secondary drum?	Yes	N
,		
Polishing carbon drum integrity.	(Good)	Роог
Polishing carbon drum leaks?	Yes	(m)
Polishing carbon drum pressure.	. 5	PSI
Polishing carbon removed for disposal?	Yes	€
New carbon placed in primary drum?	Yes	₩
·		_
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at eatch 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. Shed ventilation acceptable? Repairs/work needed? Spill evidence?	Ves Yes Yes	Poor No No
Electrical and Heating Electric controls operational Heater operational	Yes Yes	No No

Miscellaneous - (Continued)		
Access Vaults Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor Compressor operational? Compressor hours.	(Ves) 4451	No Hours
Oil level checked? Oil level changed? Compressor trap operating?	Yes Yes	No No
Regulator operating? Air lines performing properly?		No No

Sampling		
Primary carbon influent sampled?	Yes	(4)
Primary carbon effluent sampled?	Yes	(No
Secondary carbon effluent sampled?	Yes	(A)
Compliance event?	Yes	(A)
Time sampled.		a.m./p.m.
Product sampled?	Yes	(No)

Recovery and Disposal)	
Recovery from DNAPL Drum		Gallons
Pure DNAPI to disposal drum.	 _	Gallons
DNAPL/water to disposal drum.	.5	
DNAPL/water to oil/water separator.	80	Gallons
Recovery from Oil Water Separator Pure DNAPI, to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
•		
Spent carbon drums	بخ	Drums
PPE/Solids drums		Drums
LNAPL drums	1	Drums
Drums labeled?	(CS)	No
Drums palletized?	Yes	No

Notes: REDUCED BUBBLER PRESSURC TO 3951

DNAPL System

Operational upon arrival?

DNAPL pump pressure (arrival)

DNAPL pump pressure (departure)

Pneumatic settings adjusted?

Discharge control setting (departure)

Refill control setting (departure)

DNAPL Drum

Leaks present?
Decant valve integrity.

DNAPL Pump and Piping
DNAPL piping integrity.

DNAPL pump cleaned? DNAPL top of pump depth.

High level shut off operational? Green warning light operational? DNAPL drum container integrity.

	_
. No	
PSI	
PSI	
No	
Arrow	
Arrow	
No	
No ·	
Poor	
No	
Poor	
	1

Poor

Good Yes

LNAPL/Groundwater Sy	stem		
Operational upon arrival? LNAPL pump pressure (arr LNAPL pump pressure (dej Bubbler tube operating pres Pneumatic settings adjusted Discharge control setting (depar	earture) sure. ? eparture)	Yes 35 35 7⋅8 Yes ↑	No PSI PSI PSI No Arrow
LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.		Good Yes	Poor No Feet
Oil/Water Separator Water high level shut-off of White warning light operating Separator vessel integrity. Leaks present? Separator cover and seal into Decant valve integrity. LNAPL in separator? Separator needs cleaning?	onal?	Yes Yes Good Yes Good Trood Yes	No No Poor No Poor Poor No No No

Technician: ART	KOSKE	
Date: 12 - 27 - 0	5 6	

Table 4-1

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No.
Pump integrity.	Good	Poor
Flow meter operational?	Ves	No
Transfer pump flow rate.	4.9	GPM
Totalizer reading (cumulative volume).	639296	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	40/10	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	81/2	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 earbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	NO
Secondary carbon drum pressure.	14-7	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1/2	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary 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	, e	
Building and Site Remediation shed integrity. Shed ventilation acceptable? Repairs/work needed? Spill evidence?	Good Yes Yes Yes	Poor No No
Electrical and Heating Electric controls operational Heater operational	Yes Yes	No No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults Overall vault integrity. Repairs needed to vaults?	Good	Poor
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly?	4493 (S) (S) (S) (S) (S) (S)	No Hours No No No No

Sampling		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	
Secondary carbon effluent sampled?	Yes	(No)
Compliance event?	Yes	(NO)
Time sampled.		a.m./p.m.
Product sampled?	Yes	

Recovery and Disposal		
Recovery from DNAPL Drum Pure DNAPI to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	8-1	Gallons Gallons Gallons
Recovery from Oil-Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons
Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?	-m	Drums Drums Drums Drums No No

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	54	PSI
DNAPL pump pressure (departure)	54	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	N	Arrow
Refill qontrol setting (departure)	K	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.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	271/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	3.2	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	→	Arrow
LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned?	Good	Poor No
LNAPL top of pump depth.	14	Feet
Oil/Water Separator Water high level shut-off operational? White warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator?	Yes Yes Good Yes Good Yes	No No Poor No Poor Poor Poor
Separator needs cleaning? Separator cleaned?	Yes	No No

Technician: ART	KOSKR
Date: 12-29-	06

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	LNAPL/Groundwater System - (Continued)		
	Transfer Pump and Piping		
1	Pump operational?	(Yes)	No
I	Pump integrity.	Good	Poor,
1	Flow meter operational?	Yes	No
I	Transfer pump flow rate.	4.5	GPM
I	Totalizer reading (cumulative volume).	647919	Gallons
I	Water filters changed?	Yes	No
	Filter unit pressure (arrival/departure)	20/20	PSI
	Carbon Treatment Drums		
	Primary carbon drum integrity.	(Good)	Poor
	Primary carbon drum leaks?	Yes	· No
I	Primary earbon drum pressure.	777	PSI
I	Primary carbon removed for disposal?	Yes	No
I	Secondary carbon drum rotated to primary?	Yes	No
	New carbon placed in primary drum?	; Yes	(NO)
.		, i	
	Secondary carbon drum integrity.	Good	Poor
1	Secondary carbon drum leaks?	Yes	No
I	Secondary carbon drum pressure.	3	PSI
	Secondary carbon removed for disposal?	Yes	No
	Polishing drum rotated to secondary?	Yes	(NO)
	New carbon placed in secondary drum?	Yes	6
	Polishing carbon drum integrity.	Good	Poor
I	Polishing carbon drum leaks?	Yes	(No)
I	Polishing carbon drum pressure.	117	PSI
1	Polishing carbon removed for disposal?	Yes	(No)
	New carbon placed in primary drum?	Yes	(No)
I	Discharge Piping		
I	Pipe integrity in shed.	Good	Poor
1	Pipe integrity at eatch basin.	Good	Poor
I	Pipe at catch basin clear?	Yes	No
	Pipe integrity at creek.	Good	Poor
	Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults Overall vault integrity. Repairs needed to vaults?	Good	Poor
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly?	750 1 950 1 950 1 950 950 950 950 950	No Hours No No 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.	9:00	(a.m.)p.m.
Product sampled?	Yes	(No)

Recovery and Disposal		
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	2	Gallons Gallons Gallons
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons
Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	3	Drums Drums Drums
LNAPL drums Drums labeled? Drums palletized?	-@@	Drums No No