

**FORMER GASTOWN MGP SITE  
SITE NO. 915171**

**2010 SITE VISIT CHECKLISTS  
FOR THE GROUNDWATER COLLECTION  
& TREATMENT SYSTEM**

Op-Tech operated the Groundwater Collection & Treatment System through the end of June 2010 when operation shifted to GES. I requested the Site Visit Checklists from Op-Tech but never received them. Therefore, the Site Visit Checklists for 2010 start with July.

# Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	3	PSI
DNAPL pump pressure (departure)	3	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	N	Arrow
Refill control setting (departure)	✓	Arrow
<u>DNAPL Drum</u>		
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
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	4	PSI
LNAPL pump pressure (departure)	4	PSI
Bubbler tube operating pressure.	4	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	N	Arrow
Refill control setting (departure)	✓	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
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? (External)	Yes	No
Separator cleaned?	Yes	No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.		GPM
Totalizer reading (cumulative volume).	227398	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)		PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.		PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.		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	No
<u>Discharge Piping</u>		
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		
<u>Building and Site</u>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable? -?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational - off	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	93734	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.		a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	?	Drums
Spent carbon drums	6	Drums
PPE/Solids drums	4	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: System didn't discharge any water during visit.  
Shed needs upkeep (Doors + Insulation)  
Unsure of ventilation needs.  
Plan to do oil/filter change on compressor.

Technician:

T. Palmer

Date:

7-6-10

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

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

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

Technician:

T. Palmer

Date:

7-14-10

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	5	GPM
Totalizer reading (cumulative volume).	227478	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit pressure (arrival/departure)	24	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	5	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to primary?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	No gauge	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary drum?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	5	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	Good	<u>Poor</u>
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	93309	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

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

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

Notes: Airline not attached to DNAPL pump  
inside vault

DNAPL tubing to pump kinked.  
Optech paperwork reports bad LNAPL  
regulator, will try to track down  
replacement  
cleaned exterior of OWS

7-23-10

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	Yes	<input checked="" type="radio"/> No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	Good	<input checked="" type="radio"/> Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
Warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	Yes	<input checked="" type="radio"/> No
Separator cleaned?	Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<b>Transfer Pump and Piping</b>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	No
Transfer pump flow rate.	4.5	GPM
Totalizer reading (cumulative volume).	228950	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit pressure (arrival/departure)	12	PSI
<b>Carbon Treatment Drums</b>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	4	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	2	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
<b>Discharge Piping</b>		
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		
<b>Building and Site</b>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	<input checked="" type="radio"/> No
Spill evidence?	Yes	<input checked="" type="radio"/> No
<b>Electrical and Heating</b>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<b>Access Vaults</b>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="radio"/> No
<b>Air Compressor - Shut down / Bad regulator</b>		
Compressor operational?	Yes	No
Compressor hours.	93500	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	<input checked="" type="radio"/> No
Compressor trap operating?	Yes	<input checked="" type="radio"/> No
Regulator operating?	Yes	<input checked="" type="radio"/> No
Air lines performing properly?	Yes	No

Sampling		
Primary carbon influent sampled?	Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Compliance event?	Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	0.5	Gallons
DNAPL/water to disposal drum.	0.5	Gallons
DNAPL/water to oil/water separator.	~30	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<b>Product, Carbon, Waste Storage</b>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	<input checked="" type="radio"/> No
Drums palletized?	Yes	<input checked="" type="radio"/> No

Notes: System down for upgrades. Only water from sump running to system due to bad regulator @ compressor.

Technician:

T. Palmer

Date:

7-23-10

# Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	—	PSI
DNAPL pump pressure (departure)	—	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	→	Arrow
Refill control setting (departure)	←	Arrow
<u>DNAPL Drum</u>		
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
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

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

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	4.6	GPM
Totalizer reading (cumulative volume).	228906	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	14	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	4	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.	20.5	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
<u>Discharge Piping</u>		
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		
<u>Building and Site</u>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Access Vault</u>		
Overall vault integrity.	33	Good
Repairs needed to vaults?	Yes	Poor
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	93501	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.	210/1225	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
DNAPL/water to oil/water separator.	—	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums	—	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Technician: T. Palmer

Date: 7-28-10

Notes: Bubbler needs new gauge  
Remove flow meter, clean & reinstall.  
Slight leak @ Carbon Drum 1, tighten fittings and seems to have stopped.  
Still repairing doors, latches, insulation.  
Noth. Fuel reports leak in vault, no obvious visual evidence.

# Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

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

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

Technician: T. Pann

Date: 8-5-10

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	<u>Poor</u>
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>4.5</u>	GPM
Totalizer reading (cumulative volume).	<u>230821</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>18</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	<u>Poor</u>
Primary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>3.5</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	<u>Poor</u>
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>1.5</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary drum?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	<u>Poor</u>
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>20.5</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	<u>Poor</u>
Pipe integrity at catch basin.	<u>Good</u>	<u>Poor</u>
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	<u>Poor</u>
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	<u>Poor</u>
Repairs needed to vaults?	<u>Yes</u>	No
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>936.7</u>	Hours
Oil level checked?	<u>Yes</u>	<u>No</u>
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	<u>No</u>

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

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>075</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
DNAPL/water to oil/water separator.	<u>15</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>2</u>	Drums
Spent carbon drums	<u>9</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>—</u>	Drums
Drums labeled?	<u>Yes</u>	<u>No</u>
Drums palletized?	<u>Yes</u>	<u>No</u>

Notes: Tubing needs replacement  
Separator needs seal & bolts

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

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

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

Technician:

T. Palmer

Date:

8-12-10

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	<u>No</u>
Transfer pump flow rate.		GPM
Totalizer reading (cumulative volume).	<u>332650</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>30/7</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.	<u>4</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to primary?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>2</u>	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary drum?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>20.5</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9375.8</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	Yes	<u>No</u>

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

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>20.5</u>	Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	<u>12</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>2</u>	Drums
Spent carbon drums	<u>9</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums		Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	Yes	<u>No</u>

Notes:

Flow meter not working  
Carbon 1 still leaking slightly  
Air lines leaking @ connecting



## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	5	PSI
LNAPL pump pressure (departure)	5	PSI
Bubbler tube operating pressure.	1	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	<input checked="" type="radio"/> Arrow	Arrow
Refill control setting (departure)	<input checked="" type="radio"/> Arrow	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	Good	<input checked="" type="radio"/> Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
White warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	Good	<input checked="" type="radio"/> Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	Yes	<input checked="" type="radio"/> No
Separator cleaned?	Yes	<input checked="" type="radio"/> No

Technician:

T. Palmer  
8-20-10

Date:

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	Yes	<input checked="" type="radio"/> No
Transfer pump flow rate.		GPM
Totalizer reading (cumulative volume).	237650	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	14	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	No
Primary carbon drum pressure.	3.5	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	1	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	0	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	Yes	<input checked="" type="radio"/> No
Repairs/work needed?	<input checked="" type="radio"/> Yes	No
Spill evidence?	Yes	<input checked="" type="radio"/> No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.		Hours
Oil level checked?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Oil level changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	Yes	<input checked="" type="radio"/> No

Sampling		
Primary carbon influent sampled?	Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Compliance event?	Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	3025	Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	6.5	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	1	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums	1	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	Yes	<input checked="" type="radio"/> No

Notes: Compressor running very hot, shut down compressor & LNAPL, DNAPL pumps.

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	<input checked="" type="radio"/> No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	Shut off	Arrow
Refill control setting (departure)		Arrow
<u>DNAPL Drum</u>		
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
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

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

Technician:

T. Palmer

Date:

8-27-10

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	<input checked="" type="radio"/> No
Transfer pump flow rate.		GPM
Totalizer reading (cumulative volume).		Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	7	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	3.5	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	1	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	0	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
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		
<u>Building and Site</u>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	<input checked="" type="radio"/> No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	<input checked="" type="radio"/> No
Compressor hours.		Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

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

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums		Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	<input checked="" type="radio"/> No

Notes:

Working on scheduling Jim from Geology Inc. to come trouble shoot pneumatic system.

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	<input checked="" type="radio"/> No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
<u>DNAPL Drum</u>		
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
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

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

Technician:

T. Palmer

Date:

9-3-10

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	Yes	<input checked="" type="radio"/> No
Transfer pump flow rate.		GPM
Totalizer reading (cumulative volume).		Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit pressure (arrival/departure)	25/6	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	No
Primary carbon drum pressure.	3	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	1	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	0	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	Yes	<input checked="" type="radio"/> No
Repairs/work needed?	<input checked="" type="radio"/> Yes	No
Spill evidence?	Yes	<input checked="" type="radio"/> No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational	Yes	No

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

Sampling		
Primary carbon influent sampled?	Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Compliance event?	Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums		Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	Yes	<input checked="" type="radio"/> No

Notes: Flowmeter ordered and on the way.

New Filter housing ordered

Debris from west side of shed removed.

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	<input checked="" type="radio"/> No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
<i>Shut Down</i>		
<u>DNAPL Drum</u>		
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
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

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

Technician: T. PalmerDate: 9-8-10

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	<input checked="" type="radio"/> No
Transfer pump flow rate.		GPM
Totalizer reading (cumulative volume).		Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit pressure (arrival/departure)	5	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	3.5	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	2	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	0.5	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
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		
<u>Building and Site</u>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	<input checked="" type="radio"/> No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	<input checked="" type="radio"/> No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational	Turned off	No

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

Sampling		
Primary carbon influent sampled?	Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Compliance event?	Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums		Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	Yes	<input checked="" type="radio"/> No

Notes:

Install new filter housing  
 Install vacuum breaker to prevent  
 water from siphoning out of  
 Carbon Drums

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

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

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

Technician:

T. Palmer

Date:

9-15-10

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	<del>No</del>
Transfer pump flow rate.	3.03	GPM
Totalizer reading (cumulative volume).	63.69	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	5	PSI
<i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	No
Primary carbon drum pressure.	4	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	2.5	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	1.0	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
<i>Discharge Piping</i>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

Miscellaneous		
<i>Building and Site</i>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	Yes	<input checked="" type="radio"/> No
Repairs/work needed?	<input checked="" type="radio"/> Yes	No
Spill evidence?	Yes	<input checked="" type="radio"/> No
<i>Electrical and Heating</i>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	Turned off	No

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

Sampling		
Primary carbon influent sampled?	Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Compliance event?	Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
DNAPL/water to oil/water separator.	—	Gallons
<i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
<i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums	—	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	Yes	<input checked="" type="radio"/> No

Notes: New flow meter installed 9.13-10

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	<input checked="" type="radio"/> No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
<u>DNAPL Drum</u>		
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
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

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

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	No
Transfer pump flow rate.	3.57	GPM
Totalizer reading (cumulative volume).	1417.38	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	8	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	No
Primary carbon drum pressure.	4.5	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	2.5	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	≈ 1.0	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	Yes	<input checked="" type="radio"/> No
Repairs/work needed?	<input checked="" type="radio"/> Yes	No
Spill evidence?	Yes	<input checked="" type="radio"/> No
<u>Electrical and Heating</u>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	Yes	No

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

Sampling		
Primary carbon influent sampled?	Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Compliance event?	Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	0000	Drums
Spent carbon drums	0000	Drums
PPE/Solids drums	0000	Drums
LNAPL drums	0000	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	Yes	<input checked="" type="radio"/> No

Notes:

Technician:

T. Palmer

Date:

9-22-10

# Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	—	PSI
DNAPL pump pressure (departure)	21	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↑	Arrow
<u>DNAPL Drum</u>		
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
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	—	PSI
LNAPL pump pressure (departure)	28	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↑	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
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

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	4.57	GPM
Totalizer reading (cumulative volume).	2377.86	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	12	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
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.	2.5	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.	1	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
<u>Discharge Piping</u>		
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		
<u>Building and Site</u>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational	Tuned off	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	9398.4	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? <i>Quoted Sample</i>	Yes	No
Time sampled.	12:00/12:00	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
DNAPL/water to oil/water separator.	—	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	—	Drums
LNAPL drums	—	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Geopumps onsite - replace down well tubing, some controller tubing.  
Restart System

Technician:

T. Palmer

Date:

9-27-10

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>30</u>	PSI
DNAPL pump pressure (departure)	<u>30</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>30</u>	PSI
LNAPL pump pressure (departure)	<u>30</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<u>Yes</u>	No
Warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	<u>Poor</u>
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>

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LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>4.54</u>	GPM
Totalizer reading (cumulative volume).	<u>3995.14</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>30.15</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.	<u>5</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary drum?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	No
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9451.6</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

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

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>0.3</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
DNAPL/water to oil/water separator.	<u>4</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>2</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>—</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	<u>No</u>

Notes:

Change filter



## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>32</u>	PSI
DNAPL pump pressure (departure)	<u>29</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>R</u>	Arrow
Refill control setting (departure)	<u>↖</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>30</u>	PSI
LNAPL pump pressure (departure)	<u>30</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>R</u>	Arrow
Refill control setting (departure)	<u>↖</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	Good	<u>Poor</u>
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

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ENAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>4.26</u>	GPM
Totalizer reading (cumulative volume).	<u>7025</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>28/6</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.	<u>3</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to primary?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary drum?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1.5</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	<u>9461.2</u>	Hours
Oil level checked?	<u>Yes</u>	<u>No</u>
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

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

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>1662</u>	Gallons
DNAPL/water to disposal drum.	<u>25</u>	Gallons
DNAPL/water to oil/water separator.	<u>260</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>11</u>	Gallons
DNAPL/water to disposal drum.	<u>11</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>2</u>	Drums
Spent carbon drums	<u>9</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>11</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	Yes	<u>No</u>

Notes: DNAPL drum full when arrived on site.

Replace water filter.

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
DNAPL pump pressure (arrival)	24	PSI
DNAPL pump pressure (departure)	24	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	7	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	7	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
Warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	<input checked="" type="radio"/> Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	No
Transfer pump flow rate.	3.97	GPM
Totalizer reading (cumulative volume).	8727	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	9	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	No
Primary carbon drum pressure.	5	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	3	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Repairs/work needed?	<input checked="" type="radio"/> Yes	No
Spill evidence?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Electrical and Heating</u>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	- Turned off	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	No
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	9496.4	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compliance event?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums	1	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Notes:

Technician:

T. Palmer

Date:

10-28-10

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	29	PSI
DNAPL pump pressure (departure)	28	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
<u>DNAPL Drum</u>		
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
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	(Yes)	No
Red warning light operational?	(Yes)	No
Separator vessel integrity.	(Good)	Poor
Leaks present?	Yes	(No)
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)

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LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	(Yes)	No
Pump integrity.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	3.59	GPM
Totalizer reading (cumulative volume).	13802	Gallons
Water filters changed?	Yes	(No)
Filter unit pressure (arrival/departure)	17	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	(Yes)	No
Primary carbon drum pressure.	4.5	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.	2.5	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.	1	PSI
Polishing carbon removed for disposal?	Yes	(No)
New carbon placed in primary drum?	Yes	(No)
<u>Discharge Piping</u>		
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		
<u>Building and Site</u>		
Remediation shed integrity.	(Good)	Poor
Shed ventilation acceptable?	Yes	(No)
Repairs/work needed?	(Yes)	No
Spill evidence?	Yes	(No)
<u>Electrical and Heating</u>		
Electric controls operational	(Yes)	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	(Yes)	No
Compressor hours.	954.6	Hours
Oil level checked?	(Yes)	No
Oil level changed?	Yes	(No)
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No

Sampling		
Primary carbon influent sampled?	(Yes)	No
Primary carbon effluent sampled?	(Yes)	No
Secondary carbon effluent sampled?	Yes	(No)
Compliance event?	Yes	No
Time sampled.	610/620	a.m./p.m.
Product sampled?	Yes	(No)

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	20.2	Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	210	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums		Drums
Drums labeled?	(Yes)	No
Drums palletized?	Yes	(No)

Notes: Monthly Sampling

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	—	PSI
DNAPL pump pressure (departure)	28	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>DNAPL Drum</u>		
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
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
Green 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

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.48	GPM
Totalizer reading (cumulative volume).	15607.2	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	-76	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	4.5	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.	2.5	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.	1.0	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
<u>Discharge Piping</u>		
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		
<u>Building and Site</u>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	9531.2	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.		a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	1/8	Gallons
DNAPL/water to disposal drum.	—	Gallons
DNAPL/water to oil/water separator.	60	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums	—	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Turn Heat On  
Flow reduced by filter, change filter

Technician:

T. Palmer

Date:

11-2-10

# Former Gastown Manufactured Gas Plant Site

## Table 4-1

# Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
DNAPL pump pressure (arrival)	28	PSI
DNAPL pump pressure (departure)	26	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
White warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	<input checked="" type="radio"/> Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	No
Transfer pump flow rate.	3.27	GPM
Totalizer reading (cumulative volume).	19196	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit pressure (arrival/departure)	30 / 16	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	No
Primary carbon drum pressure.	5	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	2.5	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Repairs/work needed?	<input checked="" type="radio"/> Yes	No
Spill evidence?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Electrical and Heating</u>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	No
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	9555.7	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compliance event?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	1/8	Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	260	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums		Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Notes:

Technician: T. Palmer

Date: 11-10-10

# Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
DNAPL pump pressure (arrival)	26	PSI
DNAPL pump pressure (departure)	23	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
Red warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	No
Transfer pump flow rate.	3.99	GPM
Totalizer reading (cumulative volume).	23013	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	11	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	No
Primary carbon drum pressure.	5	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	3	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Repairs/work needed?	<input checked="" type="radio"/> Yes	No
Spill evidence?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Electrical and Heating</u>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	No
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	9571.4	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compliance event?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	1/8	Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	560	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	9	Drums
PPE/Solids drums	2	Drums
LNAPL drums	1	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Notes: DNAPL in high Alarm upon arrival.

Technician:

T. Palmer

Date:

11-18-10

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>30</u>	PSI
LNAPL pump pressure (departure)	<u>30</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>7</u>	Arrow
Refill control setting (departure)	<u>7</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	<u>Poor</u>
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.95</u>	GPM
Totalizer reading (cumulative volume).	<u>25895</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>-1.8</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.	<u>55</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary drum?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<u>Access Vault</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	No
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9582.0</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

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

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
DNAPL/water to oil/water separator.	<u>360</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>2</u>	Drums
Spent carbon drums	<u>9</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>—</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	<u>No</u>

Notes: DNAPL and Groundwater Systems in high  
damm upon arrival.

Change filter.

Technician:

T. Palmer

Date:

11-23-10

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
DNAPL pump pressure (arrival)	22	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	38	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
White warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	No
Transfer pump flow rate.	9.23	GPM
Totalizer reading (cumulative volume).	27125.8	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	10	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	No
Primary carbon drum pressure.	5.5	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	3	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Repairs/work needed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Spill evidence?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Electrical and Heating</u>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	No
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	75835	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compliance event?	<input checked="" type="radio"/> Yes	No
Time sampled.	1000	a.m./p.m.
Product sampled?	eff	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	5	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: - Drum pickup  
- monthly samples

Technician: Brent Miller

Date: 11-24-10



# Former Gastown Manufactured Gas Plant Site

Table 4-1

# Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>19</u>	PSI
DNAPL pump pressure (departure)	<u>19</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>✓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>30</u>	PSI
LNAPL pump pressure (departure)	<u>30</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.52</u>	GPM
Totalizer reading (cumulative volume).	<u>4501.0</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>30/5</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary drum?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9606.1</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

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

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>30</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

Technician:

Brent Miller

Date:

12-1-10

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>16</u>	PSI
DNAPL pump pressure (departure)	<u>18</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	<u>No</u>
LNAPL pump pressure (arrival)	<u>30</u>	PSI
LNAPL pump pressure (departure)	<u>30</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>391</u>	GPM
Totalizer reading (cumulative volume).	<u>3482.8</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>30/9</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>5=6</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary drum?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>2</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9616.6</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

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

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>60</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

Technician: Brent Miller  
 Date: 12-10-10

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
DNAPL pump pressure (arrival)	<u>18</u>	PSI
DNAPL pump pressure (departure)	<u>18</u>	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	<u>30</u>	PSI
LNAPL pump pressure (departure)	<u>30</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
White warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	<input checked="" type="radio"/> Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<b>Transfer Pump and Piping</b>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	No
Transfer pump flow rate.	<u>4.40</u>	GPM
Totalizer reading (cumulative volume).	<u>37311.4</u>	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit pressure (arrival/departure)	<u>-78</u>	PSI
<b>Carbon Treatment Drums</b>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	<u>5.5</u>	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	<u>1.5</u>	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<b>Discharge Piping</b>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	<input checked="" type="radio"/> Yes	No
Repairs/work needed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Spill evidence?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<b>Electrical and Heating</b>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<b>Access Vaults</b>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	No
<b>Air Compressor</b>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	<u>96397</u>	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling <u>N/A</u>		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	No
Compliance event?	<input checked="" type="radio"/> Yes	No
Time sampled.		a.m./p.m.
Product sampled?	<input checked="" type="radio"/> Yes	No

Recovery and Disposal		
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>40</u>	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
<b>Product, Carbon, Waste Storage</b>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>—</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>—</u>	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes:

Technician:

T. Palmer

Date:

12-14-10

## Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>30</u>	PSI
LNAPL pump pressure (departure)	<u>30</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>R</u>	Arrow
Refill control setting (departure)	<u>L</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	<u>Poor</u>
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>4.06</u>	GPM
Totalizer reading (cumulative volume).	<u>43540.1</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>10</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>5.5</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary drum?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	No
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9688.8</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling <u>N/A</u>		
Primary carbon influent sampled?	<u>Yes</u>	No
Primary carbon effluent sampled?	<u>Yes</u>	No
Secondary carbon effluent sampled?	<u>Yes</u>	No
Compliance event?	<u>Yes</u>	No
Time sampled.		a.m./p.m.
Product sampled?	<u>Yes</u>	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>0.25</u>	Gallons
DNAPL/water to oil/water separator.	<u>30</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>—</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>—</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

Technician:

T. Palmer

Date:

12-23-10

# Former Gastown Manufactured Gas Plant Site

Table 4-1

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
White warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	No
Transfer pump flow rate.	391	GPM
Totalizer reading (cumulative volume).	46671.6	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit pressure (arrival/departure)	24/9	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	5	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	3	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	<input checked="" type="radio"/> Yes	No
Repairs/work needed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Spill evidence?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Electrical and Heating</u>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	No
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	9716.0	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	No
Compliance event?	<input checked="" type="radio"/> Yes	No
Time sampled.		a.m./p.m.
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	25	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums		Drums
PPE/Solids drums	1	Drums
LNAPL drums		Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: Monthly Sampling: Pre-Carbon - 1335  
Post-Carbon - 1315

Technician: T. Palmer

Date: 12-30-10