

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

**2011 SITE VISIT CHECKLISTS
FOR THE GROUNDWATER COLLECTION
& TREATMENT SYSTEM**

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)	13	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)	19	PSI
LNAPL pump pressure (departure)	18	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.	2.49	GPM
Totalizer reading (cumulative volume).	55157.3	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit pressure (arrival/departure)	39/9	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.	3.5	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.	2.0	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.	0.5	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.	9730.0	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	<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.	2	Gallons
DNAPL/water to disposal drum.	0.26	Gallons
DNAPL/water to oil/water separator.	0.26	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)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: Filter Changed

Technician: T. Palmer

Date: 1-5-11

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/>	No
LNAPL pump pressure (arrival)	16	PSI
LNAPL pump pressure (departure)	16	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/>
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
 <u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<input checked="" type="radio"/>	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/>
LNAPL top of pump depth.	N/A	Feet
 <u>Oil/Water Separator</u>		
Water high level shut-off operational?	<input checked="" type="radio"/>	No
Warning light operational?	<input checked="" type="radio"/>	No
Separator vessel integrity.	<input checked="" type="radio"/>	Poor
Leaks present?	Yes	<input checked="" type="radio"/>
Separator cover and seal integrity.	Good	<input checked="" type="radio"/>
Decant valve integrity.	<input checked="" type="radio"/>	Poor
LNAPL in separator?	Yes	<input checked="" type="radio"/>
Separator needs cleaning?	Yes	<input checked="" type="radio"/>
Separator cleaned?	Yes	<input checked="" type="radio"/>

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/>	No
Pump integrity.	<input checked="" type="radio"/>	Poor
Flow meter operational?	<input checked="" type="radio"/>	No
Transfer pump flow rate.	3.75	GPM
Totalizer reading (cumulative volume).	60397.1	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	11	PSI
 <u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/>	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/>	No
Primary carbon drum pressure.	5.5	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="radio"/>
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="radio"/>
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/>
 <u>Secondary carbon drum integrity.</u>		
Secondary carbon drum leaks?	<input checked="" type="radio"/>	Poor
Secondary carbon drum pressure.	2.5	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/>
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/>
New carbon placed in secondary drum?	Yes	<input checked="" type="radio"/>
 <u>Polishing carbon drum integrity.</u>		
Polishing carbon drum leaks?	<input checked="" type="radio"/>	Poor
Polishing carbon drum pressure.	1.0	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/>
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/>
 <u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/>	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.	<input checked="" type="radio"/>	Poor
Shed ventilation acceptable?	Yes	<input checked="" type="radio"/>
Repairs/work needed?	Yes	No
Spill evidence?	Yes	<input checked="" type="radio"/>
 <u>Electrical and Heating</u>		
Electric controls operational	<input checked="" type="radio"/>	No
Heater operational	<input checked="" type="radio"/>	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"/>	No
Compressor hours.	09752	Hours
Oil level checked?	<input checked="" type="radio"/>	No
Oil level changed?	Yes	No
Compressor trap operating?	<input checked="" type="radio"/>	No
Regulator operating?	<input checked="" type="radio"/>	No
Air lines performing properly?	<input checked="" type="radio"/>	No

Sampling N/A		
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.	25	Gallons
DNAPL/water to oil/water separator.	30	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	0	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/>	No
Drums palletized?	<input checked="" type="radio"/>	No

Notes: Change compressor oil and air filter

Technician: Daniel O'Sullivan w/ Tom Palmer

Date: 01-13-11

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>↑</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>18</u>	PSI
LNAPL pump pressure (departure)	<u>18</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>	<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>2.88</u>	GPM
Totalizer reading (cumulative volume).	<u>64863.0</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>30/8</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>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>2.5</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>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>1.0</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>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>9785.8</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		
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>20</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>—</u>	Drums
LNAPL drums	<u>—</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

Technician:

T. Palmer

Date:

1-21-11

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)	10	PSI
DNAPL pump pressure (departure)	12	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	4	Arrow
Refill control setting (departure)	4	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.	N/A	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	18	PSI
LNAPL pump pressure (departure)	15	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	4	Arrow
Refill control setting (departure)	4	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

Technician: Daniel O'Sullivan w/ Tom Palmer

Date: 01-26-2011

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.	2.95	GPM
Totalizer reading (cumulative volume).	66883.0	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	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	<input checked="" type="radio"/> No
Primary carbon drum pressure.	6	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.	20	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.	5	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.	098.57	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.	1445	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.	4	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	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:

Monthly Sampling
Post-Carbon @ 1445
Pre-Carbon @ 1455

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?	Yes	<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?	Yes	<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?	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>17</u>	PSI
LNAPL pump pressure (departure)	<u>17</u>	PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	<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?	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
Red 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: 2-3-11

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>3.07</u>	GPM
Totalizer reading (cumulative volume).	<u>69249.4</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?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to	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>0.5</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon 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	<u>Yes</u>	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	<u>No</u>
Compressor hours.	<u>98305</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?	<u>Yes</u>	No

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

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

Notes: - Hole in elbow @ bottom of compressor tank. replace elbow and nipple between tank and drain valve.

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

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
Red warning light operational?	(Yes)	No
Separator vessel integrity.	(Good)	Poor
Leaks present?	Yes	(No)
Separator cover and seal integrity.	Good	(Poor)
Decant valve integrity.	(Good)	Poor
LNAPL in separator?	Yes	(No)
Separator needs cleaning?	Yes	(No)
Separator cleaned?	Yes	(No)

Technician: Dan Sullivan

Date: 02-09-2011

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	3.03	GPM
Totalizer reading (cumulative volume).	1082.4	Gallons
Water filters changed?	Yes	(No)
Filter unit pressure (arrival/departure)	12	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	5	PSI
Primary carbon removed for disposal?	Yes	(No)
Secondary carbon drum rotated to	Yes	(No)
New carbon placed in primary drum?	Yes	(No)
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	(Good)	Poor
Secondary carbon drum pressure.	Yes	(No)
Secondary carbon removed for disposal?	2	PSI
Polishing drum rotated to secondary?	Yes	(No)
New carbon placed in secondary drum?	Yes	(No)
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	(Good)	Poor
Polishing carbon drum pressure.	Yes	(No)
Polishing carbon removed for disposal?	5	PSI
New carbon primary drum?	Yes	(No)
Discharge Piping		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	(Good)	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	(Good)	Poor
Pipe at creek clear?	(Yes)	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	0764/03	Hours
Oil level checked?	(Yes)	No
Oil level changed?	(Yes)	No
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	2.5	Gallons
DNAPL/water to disposal drum.	7.0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	(Yes)	No
Drums palletized?	(Yes)	No

Notes: Training of Dan with T. Palmer

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>↗</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>10</u>	PSI
LNAPL pump pressure (departure)	<u>6</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
Red 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>5.2 L</u>	GPM
Totalizer reading (cumulative volume).	<u>75589.3</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</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum rotated to	<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 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>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>9855.2</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>	No

Sampling		
Sampling Performed?	<u>Yes</u>	<u>No</u>
Post Carbon Sample Time	<u>N/A</u>	
Pre-Carbon Sample Time		
Sampling event?	<u>Monthly</u>	Quarterly
Product sampled?	<u>Yes</u>	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>2</u>	Gallons
DNAPL/water to disposal drum.	<u>200</u>	Gallons
DNAPL/water to oil/water separator.	<u>0</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>0</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

Technician: B. Miller

Date: 2-17-11

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>1</u>	Arrow
Refill control setting (departure)	<u>4</u>	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
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>10</u>	PSI
LNAPL pump pressure (departure)	<u>5</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>4</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>2.83</u>	GPM
Totalizer reading (cumulative volume).	<u>83618.1</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>35/9</u>	PSI
Carbon Treatment Drums		
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	<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 primary drum?	<u>Yes</u>	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9867.1</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		
Sampling Performed?	<u>Yes</u>	No
Post Carbon Sample Time	<u>1330</u>	
Pre-Carbon Sample Time	<u>1345</u>	
Sampling event?	<u>Monthly</u>	Quarterly
Product sampled?	<u>Yes</u>	<u>No</u>

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

Notes:

Technician: B Miller
Date: 2-25-11

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>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
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>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</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
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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>

Technician: B Miller
Date: 3-4-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>2.50</u>	GPM
Totalizer reading (cumulative volume).	<u>11743.7</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>10</u>	PSI
Carbon Treatment Drums		
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	<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 primary drum?	<u>Yes</u>	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9876.8</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		
Sampling Performed?	<u>Yes</u>	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	<u>Monthly</u>	<u>Quarterly</u>
Product sampled?	<u>Yes</u>	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>2</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>40</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
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:

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
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)	<u>0</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: B Miller
Date: 3-9-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>2.89</u>	GPM
Totalizer reading (cumulative volume).	<u>102902</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit pressure (arrival/departure)	<u>15 22</u>	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to	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>2</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon primary drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9880.2</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?	<u>Yes</u>	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
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>65</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
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:

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	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>12</u>	PSI
LNAPL pump pressure (departure)	<u>12</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: 3-14-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>2.26</u>	GPM
Totalizer reading (cumulative volume).	<u>108,303</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>19</u>	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to	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>1.5</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>0.5</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon primary drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>887.9</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?	<u>Yes</u>	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
DNAPL/water to oil/water separator.	<u>18</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
Product, Carbon, Waste Storage		
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: Added 4 jugs bleach to
OWS + chlorinator table +
to pump
Flow increased to 2.73 GPM, Carbon 2
@ 6 psi

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow

DNAPL Drum

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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor

DNAPL Pump and Piping

DNAPL piping integrity.	<u>Good</u>	Poor
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)	<u>—</u>	PSI
LNAPL pump pressure (departure)	<u>11</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow

LNAPL Pump and Piping

LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet

Oil/Water Separator

Water high level shut-off operational?	<u>Yes</u>	No
Red 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>

LNAPL/Groundwater System - (Continued)

Transfer Pump and Piping

Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.55</u>	GPM
Totalizer reading (cumulative volume).	<u>115538</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>37 / 9</u>	PSI

Carbon Treatment Drums

Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to	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>2.5</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</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon primary drum?	Yes	<u>No</u>

Discharge Piping

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

Building and Site

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>

Electrical and Heating

Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)

Access Vaults

Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No

Air Compressor

Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9845.2</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?	<u>Yes</u>	No

Sampling

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

Recovery and Disposal

Recovery from DNAPL Drum

Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>25</u>	Gallons

Recovery from Oil/Water Separator

Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.5</u>	Gallons

Product, Carbon, Waste Storage

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: T. Palmer

Date: 3-21-11

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	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>12</u>	PSI
LNAPL pump pressure (departure)	<u>12</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: B Miller
Date: 3-28-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>1.50</u>	GPM
Totalizer reading (cumulative volume).	<u>128045</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>38/9</u>	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to	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?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>5</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</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon primary drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>905.3</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?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	No
Post Carbon Sample Time	<u>1215</u>	
Pre-Carbon Sample Time	<u>1220</u>	
Sampling event?	Monthly	<u>Quarterly</u>
Product sampled?	Yes	<u>No</u>

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

Notes:
Shut Down 3-28-11 To Start Filter install
Startup 3-29-11 4 Big Blue Filters.

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↖</u>	Arrow
Refill control setting (departure)	<u>↙</u>	Arrow
 <i>DNAPL Drum</i>		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
 <i>DNAPL Pump and Piping</i>		
DNAPL piping integrity.	<u>Good</u>	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>12</u>	PSI
LNAPL pump pressure (departure)	<u>12</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↖</u>	Arrow
Refill control setting (departure)	<u>↙</u>	Arrow
 <i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
 <i>Oil/Water Separator</i>		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: B. Miller
Date: 4-6-11

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
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</u>	GPM
Totalizer reading (cumulative volume).	<u>142333</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit pressure (arrival/departure)		PSI
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to	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</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon primary drum?	Yes	<u>No</u>
 <i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
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>
 <i>Electrical and Heating</i>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
 <i>Air Compressor</i>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>4149</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?	<u>Yes</u>	No

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

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
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>10</u>	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	<u>0.5</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
 <i>Product, Carbon, Waste Storage</i>		
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:

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>2</u>	Arrow
Refill control setting (departure)	<u>2</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	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>12</u>	PSI
LNAPL pump pressure (departure)	<u>12</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>2</u>	Arrow
Refill control setting (departure)	<u>2</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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.	<u>Good</u>	<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: B. Miller

Date: 4-11-11

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>3.44</u>	GPM
Totalizer reading (cumulative volume).	<u>150481</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit pressure (arrival/departure)		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.	<u>5.5</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon removed for disposal?	<u>3</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary drum?	Yes	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing carbon removed for disposal?	<u>1</u>	PSI
New carbon 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	<u>Yes</u>	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>920.8</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?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	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>0</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0.5</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:

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>12</u>	PSI
LNAPL pump pressure (departure)	<u>12</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: 4-22-11

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>324</u>	GPM
Totalizer reading (cumulative volume).	<u>17370</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit pressure (arrival/departure)		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.	<u>6</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to	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>0.5</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon 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	<u>Yes</u>	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>9934.3</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?	<u>Yes</u>	No

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

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>5</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>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:

Filter Pressure
 #1 In 23psi Out 8psi
 #2 In 10psi Out 8psi

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>12</u>	PSI
LNAPL pump pressure (departure)	<u>12</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: 4-28-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.18</u>	GPM
Totalizer reading (cumulative volume).	<u>190267</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit pressure (arrival/departure)		PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to	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>0.5</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon primary drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9941.6</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?	<u>Yes</u>	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>0.25</u>	Gallons
DNAPL/water to oil/water separator.	<u>15</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>0.25</u>	Gallons
Product, Carbon, Waste Storage		
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>—</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: Filter Pressure
#1 In - 23 Out - 8.5
#2 In - 12 Out - 8.5
- Add bleach to OWS

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
 <i>DNAPL Drum</i>		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
 <i>DNAPL Pump and Piping</i>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	No
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>12</u>	PSI
LNAPL pump pressure (departure)	<u>12</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	<u>PSI</u>
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
 <i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
 <i>Oil/Water Separator</i>		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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>

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>2.70</u>	GPM
Totalizer reading (cumulative volume).	<u>207245</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>21</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>9</u>	<u>7</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>21</u>	<u>7</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>9</u>	<u>7</u>
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5.5</u>	PSI
Secondary drum rotated to primary?	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>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
 <i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
Repairs/work needed?	<u>Yes</u>	<u>No</u>
Spill evidence?	Yes	<u>No</u>
 <i>Electrical and Heating</i>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
 <i>Air Compressor</i>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9950.8</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?	<u>Yes</u>	No

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

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

Notes:

Technician: B Miller
Date: 5-6-11

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?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
 <i>DNAPL Drum</i>		
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?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
 <i>DNAPL Pump and Piping</i>		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	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)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
 <i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	—	Feet
 <i>Oil/Water Separator</i>		
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?	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)		
<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	No
Transfer pump flow rate.	2.63	GPM
Totalizer reading (cumulative volume).	215711	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	21	7.5
Filter unit 2 pressure @ Arrival (In/Out)	11	7
Filter unit 1 pressure @ Departure (In/Out)	21	7.5
Filter unit 2 pressure @ Departure (In/Out)	11	7
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	5.5	PSI
Secondary drum rotated to primary?	Yes	<input checked="" type="radio"/> No
 <i>Secondary carbon drum integrity.</i>		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	3	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
 <i>Polishing carbon drum integrity.</i>		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon polishing 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?	Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	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?	Yes	<input checked="" type="radio"/> 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	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
 <i>Air Compressor</i>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	9957.7	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	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		
Sampling Performed?	<input checked="" type="radio"/> Yes	No
Post Carbon Sample Time	0915	
Pre-Carbon Sample Time	0930	
Sampling event?	<input checked="" type="radio"/> Monthly	Quarterly
Product sampled?	Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	0.5	Gallons
DNAPL/water to disposal drum.	0.5	Gallons
DNAPL/water to oil/water separator.	60	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	0	Gallons
 <i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	0	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:

Technician: B Miller
Date: 5-12-11

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: BM:11/21
 Date: 5-20-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>4.24</u>	GPM
Totalizer reading (cumulative volume).	<u>232256</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>24</u>	<u>7.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>21</u>	<u>7.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>24</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>21</u>	<u>7.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>3</u>	PSI
Secondary drum rotated to primary?	<u>Yes</u>	No
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>1</u>	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	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 polishing drum?	Yes	No
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9973.8</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?	<u>Yes</u>	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>.25</u>	Gallons
DNAPL/water to disposal drum.	<u>.75</u>	Gallons
DNAPL/water to oil/water separator.	<u>50</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
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:

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>16</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: B Miller
 Date: 5-25-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.30</u>	GPM
Totalizer reading (cumulative volume).	<u>240410</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>21</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>15</u>	<u>8</u>
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure (In/Out)		
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5.5</u>	PSI
Secondary drum rotated to primary?	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>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>?</u>	Good Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9979.3</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?	<u>Yes</u>	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>0</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</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:

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?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↙	Arrow
DNAPL Drum		
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?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	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)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↙	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
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?	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)		
Transfer Pump and Piping		
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.	2.75	GPM
Totalizer reading (cumulative volume).	251578	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	8.2	8.25
Filter unit 2 pressure @ Arrival (In/Out)	23.5	8.25
Filter unit 1 pressure @ Departure (In/Out)	3	7.5
Filter unit 2 pressure @ Departure (In/Out)	8.5	7.5
Carbon Treatment Drums		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Secondary drum rotated to primary?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
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
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	0.5	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon polishing drum?	Yes	<input checked="" type="radio"/> No
Discharge Piping		
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		
Building and Site		
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
Electrical and Heating		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	9985.8	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	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		
Sampling Performed?	Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes:

Technician: T. Palmer
Date: 5-31-11

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>16</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↖</u>	Arrow
Refill control setting (departure)	<u>↙</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↖</u>	Arrow
Refill control setting (departure)	<u>↙</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: B Miller
 Date: 6-7-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.54</u>	GPM
Totalizer reading (cumulative volume).	<u>259452</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>15</u>	<u>5.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>7</u>	<u>5.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>18</u>	<u>8</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>10</u>	<u>8</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Secondary drum rotated to primary?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon removed for disposal?	<u>3</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing carbon removed for disposal?	<u>1</u>	PSI
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	Yes	No

Miscellaneous		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>9994.7</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?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	No
Post Carbon Sample Time	<u>1325</u>	
Pre-Carbon Sample Time	<u>1330</u>	
Sampling event?	Monthly	<u>Quarterly</u>
Product sampled?	Yes	<u>No</u>

Recovery and Disposal		
Recovery from DNAPL Drum		
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
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</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:

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↖</u>	Arrow
Refill control setting (departure)	<u>↙</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↖</u>	Arrow
Refill control setting (departure)	<u>↙</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: B Miller
 Date: 6-17-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.71</u>	GPM
Totalizer reading (cumulative volume).	<u>165820</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>15</u>	<u>7.5</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>13</u>	<u>7.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>15</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>13</u>	<u>7.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5.5</u>	PSI
Secondary drum rotated to primary?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
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>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10005.3</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?	<u>Yes</u>	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>5</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</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:

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
DNAPL Drum		
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
DNAPL Pump and Piping		
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)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↙	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	<input checked="" type="radio"/> Poor
LNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	—	Feet
Oil/Water Separator		
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	<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

Technician: B Miller
 Date: 6-24-11

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.	2.89	GPM
Totalizer reading (cumulative volume).	272922	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	13	5.5
Filter unit 2 pressure @ Arrival (In/Out)	14	5
Filter unit 1 pressure @ Departure (In/Out)	30	7.5
Filter unit 2 pressure @ Departure (In/Out)	32	7.5
<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.	6	PSI
Secondary drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Secondary carbon drum integrity.</u>		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	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
<u>Polishing carbon drum integrity.</u>		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon polishing 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
<u>Miscellaneous</u>		
<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.	10012.7	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		
Sampling Performed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	<input checked="" type="radio"/> Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	0.5	Gallons
DNAPL/water to disposal drum.	0.5	Gallons
DNAPL/water to oil/water separator.	30	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0.5	Gallons
DNAPL/water to disposal drum.	0.5	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: Changed two Big Blue Filters

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	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>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>1</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: B Miller
 Date: 6-30-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	<u>5.60</u>	GPM
Totalizer reading (cumulative volume).	<u>218736</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>9</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>31</u>	<u>8</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>9</u>	<u>8</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>31</u>	<u>8</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Secondary drum rotated to primary?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon removed for disposal?	<u>4</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing carbon removed for disposal?	<u>2</u>	PSI
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>?</u>	Good
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10018.8</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?	<u>Yes</u>	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0.25</u>	Gallons
DNAPL/water to disposal drum.	<u>0.25</u>	Gallons
DNAPL/water to oil/water separator.	<u>40</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0.25</u>	Gallons
DNAPL/water to disposal drum.	<u>0.25</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</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:

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)	78	PSI
DNAPL pump pressure (departure)	78	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↗	Arrow
Refill control setting (departure)	↘	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
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)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↗	Arrow
Refill control setting (departure)	↘	Arrow
LNAPL Pump and Piping		
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
Oil/Water Separator		
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	<input checked="" type="radio"/> Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	<input checked="" type="radio"/> 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)		
Transfer Pump and Piping		
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.	281571	GPM
Totalizer reading (cumulative volume).	3.6	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	8.5	7.5
Filter unit 2 pressure @ Arrival (In/Out)	30	7.5
Filter unit 1 pressure @ Departure (In/Out)	8.5	7.5
Filter unit 2 pressure @ Departure (In/Out)	30	7.5
Carbon Treatment Drums		
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.	6	PSI
Secondary drum rotated to primary?	<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
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 polishing drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge Piping		
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		
Building and Site		
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
Electrical and Heating		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	10024.9	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		
Sampling Performed?	<input checked="" type="radio"/> Yes	No
Post Carbon Sample Time	1315	
Pre-Carbon Sample Time	1320	
Sampling event?	<input checked="" type="radio"/> Monthly	Quarterly
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

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

Notes:

Technician: B Miller
Date: 7-6-11

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)

18

PSI

DNAPL pump pressure (departure)

18

PSI

Pneumatic settings adjusted?

Yes

No

Discharge control setting (departure)

↖

Arrow

Refill control setting (departure)

↙

Arrow

DNAPL Drum

High level shut off operational?

Yes

No

Green warning light operational?

Yes

No

DNAPL drum container integrity.

Good

Poor

Leaks present?

Yes

No

Decant valve integrity.

Good

Poor

DNAPL Pump and Piping

DNAPL piping integrity.

Good

Poor

DNAPL pump cleaned?

Yes

No

DNAPL top of pump depth.

—

Feet

LNAPL/Groundwater System

Operational upon arrival?

Yes

No

LNAPL pump pressure (arrival)

10

PSI

LNAPL pump pressure (departure)

10

PSI

Bubbler tube operating pressure.

5

PSI

Pneumatic settings adjusted?

Yes

No

Discharge control setting (departure)

↖

Arrow

Refill control setting (departure)

↙

Arrow

LNAPL Pump and Piping

LNAPL piping integrity.

Good

Poor

LNAPL pump cleaned?

Yes

No

LNAPL top of pump depth.

—

Feet

Oil/Water Separator

Water high level shut-off operational?

Yes

No

Red warning light operational?

Yes

No

Separator vessel integrity.

Good

Poor

Leaks present?

Yes

No

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)

Transfer Pump and Piping

Pump operational?

Yes

No

Pump integrity.

Good

Poor

Flow meter operational?

Yes

No

Transfer pump flow rate.

4.14

GPM

Totalizer reading (cumulative volume).

285670

Gallons

Water filters changed?

Yes

No

Filter unit 1 pressure @ Arrival (In/Out)

9

8.5

Filter unit 2 pressure @ Arrival (In/Out)

31

8.5

Filter unit 1 pressure @ Departure (In/Out)

9

8.5

Filter unit 2 pressure @ Departure (In/Out)

31

8.5

Carbon Treatment Drums

Primary carbon drum integrity.

Good

Poor

Primary carbon drum leaks?

Yes

No

Primary carbon drum pressure.

5.5

PSI

Secondary drum rotated to primary?

Yes

No

Secondary carbon drum integrity.

Good

Poor

Secondary carbon drum leaks?

Yes

No

Secondary carbon drum pressure.

3

PSI

Secondary carbon removed for disposal?

Yes

No

Polishing drum rotated to secondary?

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 polishing drum?

Yes

No

Discharge Piping

Pipe integrity in shed.

Good

Poor

Pipe integrity at catch basin.

Good

Poor

Pipe at catch basin clear?

Yes

No

Pipe integrity at creek.

Good

Poor

Pipe at creek clear?

Yes

No

Miscellaneous

Building and Site

Remediation shed integrity.

Good

Poor

Shed ventilation acceptable?

Yes

No

Repairs/work needed?

Yes

No

Spill evidence?

Yes

No

Electrical and Heating

Electric controls operational

Yes

No

Heater operational

OFF

No

Miscellaneous - (Continued)

Access Vaults

Overall vault integrity.

?

Good

Poor

Repairs needed to vaults?

Yes

No

Air Compressor

Compressor operational?

Yes

No

Compressor hours.

10632.4

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

Sampling Performed?

Yes

No

Post Carbon Sample Time

Pre-Carbon Sample Time

Sampling event?

Monthly

Quarterly

Product sampled?

Yes

No

Recovery and Disposal

Recovery from DNAPL Drum

Pure DNAPL to disposal drum.

0.25

Gallons

DNAPL/water to disposal drum.

0.25

Gallons

DNAPL/water to oil/water separator.

10

Gallons

Recovery from Oil/Water Separator

Pure DNAPL to disposal drum.

0.25

Gallons

DNAPL/water to disposal drum.

0.25

Gallons

Product, Carbon, Waste Storage

DNAPL drums on-site (full and fractional)

1

Drums

Spent carbon drums

1/1

Drums

PPE/Solids drums

0

Drums

LNAPL drums

0

Drums

Drums labeled?

Yes

No

Drums palletized?

Yes

No

Notes:

Technician: B Miller
Date: 7-14-11

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>16</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↖</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↖</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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>

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.		GPM
Totalizer reading (cumulative volume).	<u>28711.3</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>9.5</u>	<u>8.8</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>40</u>	<u>8.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>9</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>25</u>	<u>7.5</u>
<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.	<u>6</u>	PSI
Secondary drum rotated to primary?	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>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon polishing 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	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>?</u>	Good
Repairs needed to vaults?	Yes	Poor
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10059.4</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?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	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>5</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>1</u>	Drums
PPE/Solids drums	<u>1/1</u>	Drums
LNAPL drums	<u>10</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

Technician: BMiller
Date: 7-22-11

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)	20	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
DNAPL Drum		
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
DNAPL Pump and Piping		
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)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	No
Discharge control setting (departure)	↗	Arrow
Refill control setting (departure)	↘	Arrow
LNAPL Pump and Piping		
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
Oil/Water Separator		
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	<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

Technician: B. Miller
Date: 7-29-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
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.	3.90	GPM
Totalizer reading (cumulative volume).	290213	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	8	7
Filter unit 2 pressure @ Arrival (In/Out)	30	7
Filter unit 1 pressure @ Departure (In/Out)	8	7
Filter unit 2 pressure @ Departure (In/Out)	30	7
Carbon Treatment Drums		
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.	6	PSI
Secondary drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon removed for disposal?	3	PSI
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon removed for disposal?	1	PSI
New carbon polishing drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge Piping		
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		
Building and Site		
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
Electrical and Heating		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	10055.1	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		
Sampling Performed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	<input checked="" type="radio"/> Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	5	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1/1	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes:

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>20</u>	PSI
DNAPL pump pressure (departure)	<u>12</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↖</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↖</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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.	<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?	Yes	<u>No</u>

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.34</u>	GPM
Totalizer reading (cumulative volume).	<u>29191.5</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>8</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>16</u>	<u>7</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>8</u>	<u>7</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>16</u>	<u>7</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Secondary drum rotated to primary?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon removed for disposal?	<u>5</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing carbon removed for disposal?	<u>1</u>	PSI
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>?</u>	Good Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10050.5</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?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	No
Post Carbon Sample Time	<u>11:00</u>	
Pre-Carbon Sample Time	<u>1:00</u>	
Sampling event?	<u>Monthly</u>	Quarterly
Product sampled?	Yes	<u>No</u>

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>8</u>	Gallons
DNAPL/water to disposal drum.	<u>8</u>	Gallons
DNAPL/water to oil/water separator.	<u>10</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1/1</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: 8-3-11

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)	40	PSI
DNAPL pump pressure (departure)	40	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↙	Arrow
DNAPL Drum		
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?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	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)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↙	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	—	Feet
Oil/Water Separator		
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?	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?	Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	Yes	<input checked="" type="radio"/> No
Separator cleaned?	Yes	<input checked="" type="radio"/> No

Technician: B. Miller

Date: 8-12-11

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.	3.75	GPM
Totalizer reading (cumulative volume).	29874	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	7	7
Filter unit 2 pressure @ Arrival (In/Out)	15	7
Filter unit 1 pressure @ Departure (In/Out)	7	7
Filter unit 2 pressure @ Departure (In/Out)	15	7
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	5	PSI
Secondary drum rotated to primary?	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.	3	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	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.	2	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon polishing 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	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?	<input checked="" type="radio"/> Yes	No
Compressor hours.	1059-9	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	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		
Sampling Performed?	Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	8	Gallons
DNAPL/water to disposal drum.	8	Gallons
DNAPL/water to oil/water separator.	6	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	1	Drums
PPE/Solids drums	1/1	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: mw-21 4.05
4.96

Pump well 11.60
17.18

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>80</u>	PSI
DNAPL pump pressure (departure)	<u>80</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
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>5</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
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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>

Technician: B. Miller
Date: 8-17-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.86</u>	GPM
Totalizer reading (cumulative volume).	<u>24561</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>5</u>	<u>5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>14</u>	<u>5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>7</u>	<u>7</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>15</u>	<u>7</u>
Carbon Treatment Drums		
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
Secondary drum rotated to primary?	<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>
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 polishing drum?	<u>Yes</u>	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10065.6</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		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>3</u>	Gallons
DNAPL/water to disposal drum.	<u>8</u>	Gallons
DNAPL/water to oil/water separator.	<u>0</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>3</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>111</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:
mw-21 DTW - 6.64
Pumping well - 15.05

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)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↙	Arrow
DNAPL Drum		
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?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL Pump and Piping		
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)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↙	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
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?	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

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Date: 8-25-11

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.	3.75	GPM
Totalizer reading (cumulative volume).	297881	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	9	7.5
Filter unit 2 pressure @ Arrival (In/Out)	20	7.5
Filter unit 1 pressure @ Departure (In/Out)	9	7.5
Filter unit 2 pressure @ Departure (In/Out)	20	7.5
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	5	PSI
Secondary drum rotated to primary?	Yes	<input checked="" type="radio"/> No
<u>Secondary carbon drum integrity.</u>		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	3	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
<u>Polishing carbon drum integrity.</u>		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon polishing 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?	Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	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	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?	<input checked="" type="radio"/> Yes	No
Compressor hours.	10074.9	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	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		
Sampling Performed?	Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	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.	0	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	1	Drums
PPE/Solids drums	1/1	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes:

mw 21- 6.21
Pumping well - 11.91

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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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.	<u>Good</u>	<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: B Miller
 Date: 9-2-11

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>4.10</u>	GPM
Totalizer reading (cumulative volume).	<u>299865</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>9</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>17</u>	<u>8</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>9</u>	<u>8</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>17</u>	<u>8</u>
<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.	<u>5.5</u>	PSI
Secondary drum rotated to primary?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
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>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing carbon removed for disposal?	<u>1</u>	PSI
New carbon polishing 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	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>?</u>	Good
Repairs needed to vaults?	Yes	Poor
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>100848</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?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	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>10</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>1</u>	Drums
PPE/Solids drums	<u>1/1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: mw-21 - 6.34
Pump well - 15.04

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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>1</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>1</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>1</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>1</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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.	<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?	Yes	<u>No</u>

Technician: Brent Miller
Date: 9-6-2011

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.71</u>	GPM
Totalizer reading (cumulative volume).	<u>301357</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>7.5</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>1.8</u>	<u>7</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>7.5</u>	<u>7</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>7.8</u>	<u>7</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Secondary drum rotated to primary?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon removed for disposal?	<u>3</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing carbon removed for disposal?	<u>1</u>	PSI
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>?</u>	Good
Repairs needed to vaults?	Yes	Poor
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10089.7</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?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	No
Post Carbon Sample Time	<u>1330</u>	
Pre-Carbon Sample Time	<u>1340</u>	
Sampling event?	Monthly	<u>Quarterly</u>
Product sampled?	Yes	<u>No</u>

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

Notes: mw-21 6.11
Pump well 15.88

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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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>

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.57</u>	GPM
Totalizer reading (cumulative volume).	<u>502809</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>7</u>	<u>6.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>19</u>	<u>6.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>7</u>	<u>6.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>19</u>	<u>6.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Secondary drum rotated to primary?	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>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	OFF	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>?</u>	Good
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10105.2</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?	<u>Yes</u>	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>35</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1/1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:
mw-21 - 6.46
Pump well - 17.04

Technician: Brent Miller
Date: 9-16-11

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)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↙	Arrow
 <i>DNAPL Drum</i>		
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?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
 <i>DNAPL Pump and Piping</i>		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	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)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↗	Arrow
Refill control setting (departure)	↘	Arrow
 <i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	—	Feet
 <i>Oil/Water Separator</i>		
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?	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)		
<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?	Yes	No
Transfer pump flow rate.	3.64	GPM
Totalizer reading (cumulative volume).	304137	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	8	7
Filter unit 2 pressure @ Arrival (In/Out)	18	7
Filter unit 1 pressure @ Departure (In/Out)	8	7
Filter unit 2 pressure @ Departure (In/Out)	18	7
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	5	PSI
Secondary drum rotated to primary?	Yes	<input checked="" type="radio"/> No
 <i>Secondary carbon drum integrity.</i>		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	3	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
 <i>Polishing carbon drum integrity.</i>		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon polishing 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?	Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	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	Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	3	Good
Repairs needed to vaults?	Yes	No
 <i>Air Compressor</i>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	1011.2	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	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		
Sampling Performed?	Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	20	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
 <i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1/1	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes:

Technician:

B. Miller

Date:

9-23-11

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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>2</u>	Arrow
Refill control setting (departure)	<u>2</u>	Arrow
 <i>DNAPL Drum</i>		
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
 <i>DNAPL Pump and Piping</i>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>2</u>	Arrow
Refill control setting (departure)	<u>2</u>	Arrow
 <i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
 <i>Oil/Water Separator</i>		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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>

Technician: B Miller
Date: 9-30-11

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.33</u>	GPM
Totalizer reading (cumulative volume).	<u>0</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>15</u>	<u>7.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>18</u>	<u>7.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>15</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>18</u>	<u>7.5</u>
 <i>Carbon Treatment Drums</i>		
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
Secondary drum rotated to primary?	<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>
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 polishing drum?	<u>Yes</u>	<u>No</u>
 <i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
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>
 <i>Electrical and Heating</i>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>OFF</u>	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	<u>?</u>	<u>Good</u>
Repairs needed to vaults?	<u>Yes</u>	Poor
 <i>Air Compressor</i>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>—</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		
Sampling Performed?	<u>Yes</u>	<u>No</u>
Post Carbon Sample Time	<u>—</u>	<u>—</u>
Pre-Carbon Sample Time	<u>—</u>	<u>—</u>
Sampling event?	<u>Monthly</u>	<u>Quarterly</u>
Product sampled?	<u>Yes</u>	No

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

Notes:
- Replace Flowmeter Battery

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>2.0</u>	PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>✓</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>1.0</u>	PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>✓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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.	<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?	Yes	<u>No</u>

Technician: Daniel O'Sullivan

Date: 16.05.01

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>2.67</u>	GPM
Totalizer reading (cumulative volume).	<u>9524</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>16</u>	<u>11</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>17</u>	<u>11</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>7</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>8</u>	<u>7.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5.5</u>	PSI
Secondary drum rotated to primary?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon removed for disposal?	<u>2.0</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing carbon removed for disposal?	<u>1</u>	PSI
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.		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		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes: CEI on-site for dewatering,
stained shed framing
changed water filters
did not do recovery + disposal
due to high amounts of water
running through the system

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>20</u>	PSI
DNAPL pump pressure (departure)	<u>26</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>A</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	<u>—</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: D O'Sullivan

Date: 10-06-01

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.27</u>	GPM
Totalizer reading (cumulative volume).	<u>11335</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>7</u>	<u>7.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>8</u>	<u>7.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>7</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>7</u>	<u>7.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5.5</u>	PSI
Secondary drum rotated to primary?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon removed for disposal?	<u>7.0</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing carbon removed for disposal?	<u>1</u>	PSI
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.		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		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes: change red light bulb
hung wood beams to help support insulation
changed filters
GEI/OSC finished pumping rollout
as well as 3 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)	20	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↙	Arrow
DNAPL Drum		
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?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	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)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↗	Arrow
Refill control setting (departure)	↘	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	—	Feet
Oil/Water Separator		
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?	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: 10-11-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
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.	3.49	GPM
Totalizer reading (cumulative volume).	15381.4	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	25	4
Filter unit 2 pressure @ Arrival (In/Out)	5	4
Filter unit 1 pressure @ Departure (In/Out)	22	5
Filter unit 2 pressure @ Departure (In/Out)	11	8
Carbon Treatment Drums		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	6	PSI
Secondary drum rotated to primary?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	Yes	<input checked="" type="radio"/> No
Secondary carbon removed for disposal?	3	PSI
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	Yes	<input checked="" type="radio"/> No
Polishing carbon removed for disposal?	1	PSI
New carbon polishing drum?	Yes	<input checked="" type="radio"/> No
Discharge Piping		
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		
Building and Site		
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
Electrical and Heating		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="radio"/> No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	10131.6	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	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		
Sampling Performed?	<input checked="" type="radio"/> Yes	No
Post Carbon Sample Time	1315	
Pre-Carbon Sample Time	1330	
Sampling event?	<input checked="" type="radio"/> Monthly	Quarterly
Product sampled?	Yes	<input checked="" type="radio"/> No

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

Notes: - Clean & reassemble auto drum and restart DNAPL system (New drum pre ordered)
- Monthly Sampling Performed

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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>A</u>	Arrow
Refill control setting (departure)	<u>✓</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>1</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>10</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>A</u>	Arrow
Refill control setting (departure)	<u>✓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>1</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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.	<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?	Yes	<u>No</u>

Technician: D. O'Sullivan
 Date: 10/17/14

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>2.84</u>	GPM
Totalizer reading (cumulative volume).	<u>21833.5</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>28</u>	<u>6.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>29</u>	<u>6.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>29</u>	<u>7</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>33</u>	<u>7</u>
<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.	<u>5.0</u>	PSI
Secondary drum rotated to primary?	Yes	<u>No</u>
<u>Secondary carbon drum integrity.</u>		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon removed for disposal?	<u>1.5</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
<u>Polishing carbon drum integrity.</u>		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing carbon removed for disposal?	<u>1.0</u>	PSI
New carbon polishing 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
<u>Miscellaneous</u>		
<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	Yes	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.	<u>10/36.9</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?	<u>Yes</u>	No
<u>Sampling</u>		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
<u>Recovery and Disposal</u>		
<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>0</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>1</u>	Drums
PPE/Solids drums	<u>1/1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

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?	Yes	<u>No</u>
Discharge control setting (departure)	<u>R</u>	Arrow
Refill control setting (departure)	<u>L</u>	Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>✓</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>7</u>	Arrow
Refill control setting (departure)	<u>✓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>✓</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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>

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.54</u>	GPM
Totalizer reading (cumulative volume).	<u>37837.3</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>27</u>	<u>10</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>29</u>	<u>11</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>8</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>8</u>	<u>7.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Secondary drum rotated to primary?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon removed for disposal?	<u>2</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing carbon removed for disposal?	<u>1</u>	PSI
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>101449</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		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes:

Technician: D. O'Sullivan

Date: 10-26-11

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)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	L	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	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)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↗	Arrow
Refill control setting (departure)	↘	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
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?	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: 11-1-11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
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.	300	GPM
Totalizer reading (cumulative volume).	45660.7	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	7	6.5
Filter unit 2 pressure @ Arrival (In/Out)	7	6.5
Filter unit 1 pressure @ Departure (In/Out)	8	7.5
Filter unit 2 pressure @ Departure (In/Out)	8	7.5
Carbon Treatment Drums		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	5	PSI
Secondary drum rotated to primary?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	Yes	<input checked="" type="radio"/> No
Secondary carbon removed for disposal?	2	PSI
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	Yes	<input checked="" type="radio"/> No
Polishing carbon removed for disposal?	0.5	PSI
New carbon polishing drum?	Yes	<input checked="" type="radio"/> No
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	Yes	<input checked="" type="radio"/> No
Repairs/work needed?	Yes	<input checked="" type="radio"/> No
Spill evidence?	Yes	<input checked="" type="radio"/> No
Electrical and Heating		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="radio"/> No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	10151.1	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	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		
Sampling Performed?	Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.	0.5	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1/1	Drums
LNAPL drums		Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes:
Turn DNAPL Pressure to 22 PSI
and increase discharge time

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.		GPM
Totalizer reading (cumulative volume).	50425.9	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)		
Filter unit 2 pressure @ Arrival (In /Out)		
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure (In/Out)		
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.		PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.		PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.		PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	Yes	<u>No</u>
Compressor hours.	2391.2	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		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes: Compressor auto drain free flowing air.
Compressor not shutting off.
- water on floor, cracked nipple @ transfer pump
- DNAPL System pumped 0 gallons, need to pull and clean/check

Technician: T. Palmer
Date: 11-10-11

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?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
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)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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>

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	3.40	GPM
Totalizer reading (cumulative volume).	50746.6	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	9	7.5
Filter unit 2 pressure @ Arrival (In/Out)	8	7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure (In/Out)		
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	5.5	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	Yes	<u>No</u>
Compressor hours.	10291.2	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		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes: Trouble shoot auto drain.
Seal cracked + valve worn.
Order parts, leave compressor off.
(Parts in next week)
- Order oil for oil change next week

Technician: T. Palmer

Date: 11-11-11

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?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
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?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
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)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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.	<u>Good</u>	<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>

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>357</u>	GPM
Totalizer reading (cumulative volume).	<u>54375.2</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>17</u>	<u>5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>6</u>	<u>4.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>17</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>7</u>	<u>7.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5.5</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon rotated to primary?	<u>3</u>	PSI
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>i</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	Yes	<u>No</u>
Compressor hours.		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		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes:

Technician: D. O. Sullivan
 Date: 11-18-11

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?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
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)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: D. O'Sullivan

Date: 11/23/11

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.50</u>	GPM
Totalizer reading (cumulative volume).	<u>57409.</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>27</u>	<u>5.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>7</u>	<u>4.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>23</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>10</u>	<u>7.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary Carbon Drums		
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 rotated to primary?	Yes	<u>No</u>
Polishing Carbon Drums		
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	Yes	<u>No</u>
Compressor hours.	<u>102817</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?	<u>Yes</u>	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>0</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>11</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

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?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
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)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	<u>Poor</u>
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>

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>2.73</u>	GPM
Totalizer reading (cumulative volume).	<u>2177.6</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>2.5</u>	<u>6</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>2.1</u>	<u>5.5</u>
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure (In/Out)		
<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.	<u>4.5</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
<u>Secondary Carbon Drums</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 rotated to primary?	Yes	<u>No</u>
<u>Polishing Carbon Drums</u>		
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing 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?	Yes	<u>No</u>
Spill evidence?	Yes	<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?	Yes	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	Yes	<u>No</u>
Compressor hours.	<u>10310</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	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>0</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>1</u>	Drums
PPE/Solids drums	<u>1/1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

Technician: Daniel O'Sullivan
Date: 11-30-11

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>14</u>	PSI
DNAPL pump pressure (departure)	<u>14</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>→</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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.	<u>Good</u>	<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>

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>1.15</u>	GPM
Totalizer reading (cumulative volume).	<u>76121</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>21</u>	<u>6.5</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>33</u>	<u>6.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>29</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>31</u>	<u>7.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5.0</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon rotated to primary?	<u>3</u>	PSI
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>103433</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?	<u>Yes</u>	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>0</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>111</u>	Drums
LNAPL drums	<u>—</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

Technician: Daniel O'Sullivan

Date: 12/09/11

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)	<input checked="" type="radio"/>	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
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?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	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)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	→	Arrow
Refill control setting (departure)	→	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
Red warning light operational?	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)		
Transfer Pump and Piping		
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.	2.5	GPM
Totalizer reading (cumulative volume).	90422.0	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	3.2	10
Filter unit 2 pressure @ Arrival (In/Out)	2.8	10.5
Filter unit 1 pressure @ Departure (In/Out)	2.3	7
Filter unit 2 pressure @ Departure (In/Out)	2.5	7
Carbon Treatment Drums		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	Yes	<input checked="" type="radio"/> No
Secondary carbon rotated to primary?	2	PSI
Yes	<input checked="" type="radio"/> No	
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	0.5	PSI
New carbon polishing drum?	Yes	<input checked="" type="radio"/> No
Discharge Piping		
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		
Building and Site		
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
Electrical and Heating		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="radio"/> No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	15516.0	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	Yes	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		
Sampling Performed?	Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes: Slight air leak in control panel.
Need to order New tubing and some fittings
- DNAPL pump not pumping any DNAPL
will have to pull, clean, and rebuild soon. Switch off control panel.
- Bleach system to increase flow

Technician: T.P. dmr

Date: 12-16-11

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
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

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

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.36	GPM
Totalizer reading (cumulative volume).	100 518	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	25	85
Filter unit 2 pressure @ Arrival (In/Out)	26	80
Filter unit 1 pressure @ Departure (In/Out)	25	7.5
Filter unit 2 pressure @ Departure (In/Out)	25	7.5
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	103760	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

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

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

Notes: LNAPL/DNAPL Pump
Bleached system
adjusted flow

Technician: D. O'Sullivan

Date: 12/22/11

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

LNAPL/Groundwater System		
Operational upon arrival?	Yes	<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)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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>

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>2.07</u>	GPM
Totalizer reading (cumulative volume).	<u>109322</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>25</u>	<u>25</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>25</u>	<u>8</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>20</u>	<u>2.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>20</u>	<u>2.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary Carbon Drums		
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 rotated to primary?	Yes	<u>No</u>
Polishing Carbon Drums		
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	Yes	<u>No</u>
Compressor hours.	<u>103960</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		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>6</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>6</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>141</u>	Drums
LNAPL drums	<u>141</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: dummy 1 gallon of waste to drums

Technician: Daniel Sullivan

Date: 12/29/9