

SCHMATIC PRODUCED BY BERT ALBISSER OF AQUA TECH SUPPLIES AND SERVICES LTD.

		PROJECT SMALL PUBLIC WATER SYSTEMS ASSESSMENT NORTHERN REGION	
CLIENT 		TITLE WATER SYSTEM DISTRIBUTION/TREATMENT SCHEMATIC SYSTEM ID.: 5681 GRADER STATION - STEWART CROSSING, YT.	
DATE	SEPT., 2005	FILE NO.	1260002.004
	DWN.	CHKD.	RMM
	JSB		DWG.: FIGURE 5681-B

Northern Region - Stewart Crossing Grader Station
 Building # 5681

DISTRIBUTION & TREATMENT SYSTEM DATA

Item	Description	Manufacturer	Model	Part No.	Serial No.	Size
1	Sub Pump	?				5HP - 4"
2	LINE FLOOR	AMEYER	10" BB			1 1/2" x 10"
3	Chemical Pump	LMI	A751-39251		20020712	896
4	Chemical TANK	LMI	20 I. GARDON			
5	Flow Meter	LMI	REP-010			
6	Pressure Tank	Wau x Trol	WX-360			
7	SOFTENER	AMM-TECH	50265606	DUREX	184243	9000-1450 DUPLEX
8	Pressure Switch	SQUARE D	F5G-2			
9	Pressure Gauge	MARSH	0-100			2 1/2" - 1/4" FIT
10	Circ Pump	ARMSTRONG	?			



TABLE 5681/5682- 1: SUMMARY OF BACTERIOLOGICAL RESULTS

Building #	Building Name	Number of Sampling Events	Time Period over which Sampling was Done	Any Positive Total Coliform Results? (yes or no)	Fraction of Positive Total Coliform Results vs. Total Sampling Events	Any positive E.Coli results? (yes or no)	Most Recent Sampling Event Available for EBA Review	Is Most Recent Result Positive?
5681	Stewart Crossing Grader Station	9	Oct-04 to Jun-05	no	0/9	no	9-Jun-05	no
5682	Stewart Crossing Living Complex	8	Oct-04 to Jun-05	no	0/8	no	9-Jun-05	no



Table 5681/5682 - 2: Water Quality Results

SOURCE:	Building 5681 - Stewart Crossing Grader Station			Building 5682 - Stewart Crossing Living Complex	GCDWQ Criteria		
Location/ Resident	Stewart Crossing			Stewart Crossing			
Address							
Treatment	Softener (not in use), filtration			Softener (not in use), filtration			
Disinfection	Chlorination (not in use)			Chlorination (not in use)			
Source of Water	On-site well			On-site well			
Purpose of Sampling	Base Line	Base Line	Additional Sampling	Base Line			
Sample Location			Complex Residence				
Date Sampled	29-Sep-04	8-Jun-05	16-Aug-05	29-Sep-04	Lower	Upper Limit	
Physical Tests (ALS)					AO	MAC	AO
Colour (CU)	27	<5.0		7			15
Conductivity (uS/cm)		344					
Total Dissolved Solids	180	180		181			500
Hardness CaCO3	169	171		168	AO >200 = poor, > 500 unacceptable ^A		
pH	8.07	8.22		8.07	6.5		8.5
Turbidity (NTU)	10.3	17.7	8.02	1.4		1	5
UV Absorbance							
% UV Transmittance							
Dissolved Anions (ALS)							
Alkalinity-Total CaCO3	161	160		163			
Chloride Cl	0.8	<0.50		0.6			250
Fluoride F	0.15	0.173		0.15		1.5	
Silicate SiO4			10.2				
Sulphate SO4	17.7	18.5		17.8			500
Nitrate Nitrogen N	<0.1	<0.10		<0.1		10	
Nitrite Nitrogen N	<0.05	<0.10		<0.05		1	
Ammonia Nitrogen N							
Total Phosphate PO4			0.0285				
Total Metals (ALS)							
Aluminum T-Al	<0.005	<0.010		<0.005		0.1	
Antimony T-Sb	<0.0002	<0.00050		<0.0002		0.006	
Arsenic T-As	0.0094	0.0117	0.0108	0.0074		0.025	
Barium T-Ba	0.08	0.077		0.072		1	
Boron T-B	0.005	<0.10		0.004		5	
Cadmium T-Cd	<0.00001	<0.00020		<0.00001		0.005	
Calcium T-Ca		53.5					
Chromium T-Cr	0.001	<0.0020		0.001		0.05	
Copper T-Cu	<0.001	0.0057		0.002		1	
Iron T-Fe	0.6	1.48	0.923	0.28			0.3
Lead T-Pb	<0.0001	<0.0010		0.0002		0.01	
Magnesium T-Mg		9.11					
Manganese T-Mn	0.136	0.134	0.14	0.136			0.05
Mercury T-Hg		<0.00020				0.001	
Potassium T-K		1.38					
Selenium T-Se		<0.0010				0.01	
Sodium T-Na	3	3.4		3			200
Uranium T-U	<0.0005	<0.00010		<0.0005		0.02	
Vanadium T-V			<0.030				
Zinc T-Zn	0.221	0.43		0.226			5
Dissolved Metals							
Arsenic D-As			0.00697			0.025	
Iron D-Fe			<0.030				0.3
Manganese D-Mn			0.135				0.05
Organic Parameters							
Tannin and Lignin							
Total Organic Carbon C			1.44				
Field Chemistry (EBA)							
pH			8.38		6.5		8.5
TDS (ppm)			165				500
EC (uS/cm)			326				
Temperature (°C)			15.5				
Free Available Chlorine			0.01				

Notes:

A. Guidelines indicated for hardness are not CDWQG, rather they are general aesthetic guidelines - exceedences are indicated in yellow highlighting.

Italics and underline indicates exceedence of proposed MAC (ie. arsenic)

Bold with Yellow highlighting indicates exceedence of CDWQG Aesthetic Objective (AO)

Bold Underline with Yellow highlighting indicates exceedence of CDWQG MAC

Results are expressed as milligrams per litre except for pH and Colour (CU)

Conductivity (umhos/cm), Temperature (°C) and Turbidity (NTU)

< = Less than the detection limit indicated.

AO = Aesthetic Objective

MAC = Maximum Acceptable Concentration (Health Based)



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SMALL PUBLIC WATER SYSTEM ASSESSMENT

PART A: EBA Site Inspection

Inspector: Ryan Martin, Luke Lebel

Date Aug 16, 2005

WELL ID #	Owner	Location Description
5681	YTG	Stewart Crossing Grader Station

1. Well Location and Potential Contaminant Sources

a. General location of well: (Community, Subdivision, etc.)

Stewart Crossing

b. Specific location: (Road or street, Building number, name of owner and/, legal description,

In wellhouse on grader station compound

c. GPS location: N 7028437 E 416194 elev 468m ±6m

d. Is there electric power? Yes No

e. Is there outside water access? Yes No
Publicly Accessible

f. Does the well system have:

15 or more service connections to a piped distribution system? If so how many _____

Maintenance garage and Living Complex

5 or more delivery sites on a trucked distribution system? If so how many _____

g. Nearest building, specify Pumphouse

h. Distance from well to building 1.65m

i. If there is an effluent disposal field, is its location known? Yes No

j. Distance from well to nearest point of known field: leach pit @ 33m

k. Well location relative to field: upslope downslope lateral

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l. Is there any part of a sewage disposal system(s) or other potential sources of pollution that may pose a health and safety risk within 30 m? Yes No

No. Tank @ ~45m; outhouse @ ~40m

m. Is the well located within 300 m from a sewage lagoon or pit? Yes No *unlikely*

n. Is the well located within 120 m from a solid waste site or dump, cemetery? Yes No *unlikely*

o. Is the infrastructure protecting the wellhead, pumphouse, storage tank and/or water treatment plant designed and secured to prevent:

Unauthorized access by humans? Yes No *Unlocked enclosure* Entrance by animals? Yes No *Access possible*

p. Is well site subject to flooding? Yes No

q. Is the well site well drained? Yes No

r. Is there a buried fuel tank on the property? Yes No

If yes, is it in use abandoned

Is the location known? Yes No

Distance from the well to known buried tank ~40m

s. Are there any other known contaminant sources on the property?

Yes No Describe Industrial activities around the well

If yes, specify the source: dump sewage lagoon cemetery other

Potential Source 1: Drums (Unknown contents); Distance from well to Potential Source 1: ~10m

Potential Source 2: Paint + Toluene Drums; Distance from well to Potential Source 2: ~15m

Potential Source 3: Tar tank; Distance from well to Potential Source 3: ~45m

Potential Source 4: Salt storage; Distance from well to Potential Source 4: ~35m
Creosote timbers @ ~15m

t. Are there other wells on this property? Yes No

How many? 1 in use abandoned require proper sealing
dug well @ ~100m

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2. Well and Wellhead information:

- a. When was well installed? Year 1994 Month April
- b. Type: drilled dug sand point other _____
- c. Is there a drillers log for the well: Yes No
- d. Is there a surface seal to 6 m Yes No unknown unlikely
- e. Surface casing: Yes Diameter 30 cm No
- f. Well casing: Diameter 30 cm to 12.8 m
20 cm to 150 m
15 cm to 176 m Material: steel plastic concrete
- g. Depth of well: 177.4 m measured (if possible) reported from log
- h. Static water level below ground: Unknown
 measured (if possible) reported from log flowing
- i. (If granular) Is the well completed: open end casing with a well screen
 with slotted pipe unknown other _____
- j. (If bedrock) Does the well have a liner? yes No steel plastic
- k. If there is a well screen: length 1.8 m slot size(s) 80 slot and 50 slot
Location of screen: from 176.0 m to 177.4 m from log reported
- l. Is there a sump below the screen? Yes No
- m. Is the well head: in pumphouse in pit pitless adaptor in a building
 in a wooden enclosure other, describe adjacent to pumphouse
- n. If the well head is located in a wooden enclosure,

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- i. Is the well head below grade? describe in detail No
- ii. Are there signs of ponding on the enclosure(e.g. water stains, etc.)? Yes No
- iii. Is the wellhead enclosed by fiberglass insulations? Yes No
- iv. Any evidence of rodents? Specify No
- v. Does the well casing have a proper seal cap? Yes No

If no, describe condition likely, but not able to observe due to insulation

3. Water Supplying This Well:

- a. By definition is the water from a surface water source or under the direct influence of surface water?
 Yes No farther investigation required.

If yes is there treatment or disinfection Yes No

Explain (filtration, disinfection etc...) Filtration, softening, chlorination

4. Aquifer Supplying This Well:

- a. The aquifer is: bedrock granular sediment unknown
- b. Does water level and/or well capacity show seasonal fluctuation? Yes No unlikely

5. Pump Installation:

- a. Is the well equipped with a pump? yes No
- b. Type of pump: hand electric submersible jet
 shallow well centrifugal other, _____
- c. Description: Manufacturer _____ Model _____
horsepower _____ capacity _____ voltage _____

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d. Date installed: _____ By: _____

e. For submersible pump, depth of setting below surface _____

f. Drop pipe for submersible pump: steel plastic *unknown*

g. Pump delivers water to: pressure tank elevated tank other

h. Are there automatic pump controls: Yes No

i. Is there provision for taking water samples before water reaches storage? Yes No

j. Is there a water meter on the system? Yes No

k. Is the pump and piping protected from freezing? Yes No

If yes, describe: Insulation and heat trace

l. Comments on pump installation: _____

6. Conclusions

a. Comments on overall installation:

b. Recommendations: _____

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PART B: EBA Site Inspection

Inspector: BERT ALBESER

Date AUG. 16/05

WELL ID #	Owner	Location Description
5681	VTG	STEWART CROSSING, VT

6. Water Treatment

- a. Is well water treated? Yes No; Type of treatment:
- chlorination iron and or manganese removal other _____
- b. Is water entering plumbing or piped distribution system treated with chlorine or another treatment that is as effective as chlorine used to achieve disinfection throughout the system?
- Yes No If so how CHLORINATOR (LIQUID)
- c. If treated with chlorine, is the free residual chlorine concentration less than 0.2 mg/L
- Yes No _____ reading.
- Tested at _____ (location)
- d. Is testing for chlorine residual concentration done at the tap (eg. Kitchen faucet) or from representative points in a piped distribution system, including a point from tap at the end line
- Yes No If yes how often? _____
- e. If the drinking water is being transported by water delivery truck does it have a minimum chlorine free residual of 0.4 mg/L at the time of fill. Yes No

7. Water Quality (observations):

- a. Does the water stain plumbing? yes No slight severe
- Type of stain: brown red black
- b. Does the water contain sediment? Yes No occasional constant
- c. Is there an unpleasant odour? Yes No H₂S Other _____

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- d. Is there an unpleasant taste? Yes No brackish Other _____
- e. Is there a history of bad bacterial analyses? Yes No
- f. Is there a chemical analysis? Yes No adequate incomplete
- g. Is there analysis of trihalomethanes (THMs) where the water source is a surface water supply or a well under the direct influence of surface water? Yes No
- h. Is the drinking water tested daily with an accurate reading chlorine test kit capable of reading in the range 0 to 3.5 mg/L of free chlorine residual in increments of 0.1mg/L? Yes No unknown
- i. If yes is the test performed in accordance with manufactures directions? Yes No unknown
- j. Is a record of the date, time, name of person performing the test and results of the drinking water sample kept? Yes No

TANK AND PIPING DETAILS

Tank Room

Is there a water tank? Yes No Details: PRESSURE TANK

Where is it located?

Comments: _____

Is the room in which the water tank is located heated to maintain an optimum temperature of 4°C for stored water?

YES NO

Comments: Wall House

Are there windows in the add-on that may allow direct sunlight onto the water holding tank? YES

NO

Comments: _____

Are there other heat sources near the tank? YES NO

Comments: _____

Is there waterproof flooring with a sealed base to contain spills? YES NO

Comments: _____

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Overall Tank

What are the tank size and dimensions?

Wx - 366

What material is the tank constructed of? STEEL & Butyl Bladder

Is tank and associated piping constructed of safe materials (i.e. CSA approved and material that does not affect the taste of the water)? YES NO

Comments: _____

Tank Inlet, Outlet and Lid

Is there adequate access on the tank for cleaning (i.e. min 15" access lid)? YES NO

Does the lid have a tight seal and is it watertight when closed? YES NO

Does the tank have an overflow or high level whistle? YES NO

Is the water tank drain accessible? YES NO

WATER TANK AND WATER QUALITY CONDITION

Are there signs of staining or biofouling? YES NO

Comments: _____

Is there any sediment or scum in bottom of tank? YES NO

Comments: _____

Is there any odour associated with the water or tank? YES NO

Have there been any bacteriological analyses conducted previously? YES NO

Does the tank appear that it has been cleaned recently? YES NO

Are the tanks easily assessed for the purpose of cleaning and disinfection? YES NO

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8. Conclusions

a. Comments on overall installation:

INSTALLATION IS ACCEPTABLE WITH THE EXCEPTION OF THE SOFTNER DRAIN. THERE IS NO PROPER DRAIN PIT IT DRAINS ON THE GROUND OUTSIDE THE WELL HOUSE. THE CHLORINATOR IS UNPLUGGED. IT IS NOT IN SERVICE AT THIS TIME.

b. Recommendations:

INSTALL PROPER DRAIN FACILITY FOR TREATMENT SYSTEM.

RETURN SOFTNER TO SERVICE AND TRAIN PERSONNEL TO OPERATE THE SYSTEM AND INSTITUTE CHLORINE RESIDUAL TESTING AT SCHEDULED INTERVALS. DAILY RESIDUAL TESTING IS RECOMMENDED.



Field Report

13 MacDONALD ROAD
WHITEHORSE, YUKON
Y1A 4L1

PHONE (403) 633-3070
TELEX 036-8496

Started *MAR. 8*.....19*85*

Completed *APR. 1*....19*85*

NAME AND ADDRESS OF CLIENT	DESCRIPTION OF WORK	LOCATION OF WORK
<i>Cem & Transport.</i>	<i>w/w</i>	<i>Stewart</i>
	<i>94-1A-3</i>	<i>King Living Complex?</i>

FORMATION LOG			DESCRIPTION OF WORK	TIME			
FROM	TO	FORMATION		DATE	FROM	TO	HOURS
			MOVE 12" casing				
			Loading	<i>MAY. 8</i>	<i>9:00</i>	<i>5:00</i>	<i>8</i>
			Load	<i>MAY. 9</i>	<i>8:00</i>	<i>8:30</i>	<i>0.5</i>
			Travel to stewart	<i>"</i>	<i>8:30</i>	<i>2:30</i>	<i>6</i>
			move on set up	<i>"</i>	<i>2:00</i>	<i>5:30</i>	<i>2.5</i>
<i>0</i>	<i>20</i>	<i>Gr.</i>	<i>sand cobs.</i>	<i>"</i>	<i>5:30</i>	<i>7:00</i>	<i>1.5</i>
<i>20</i>	<i>40</i>	<i>Gr.</i>	<i>sand cobs</i>	<i>MAY. 10</i>	<i>8:00</i>	<i>11:30</i>	<i>3.5</i>
			<i>Remove casing hammer</i>	<i>"</i>	<i>11:30</i>	<i>12:30</i>	<i>1</i>

Rcd. of Casing & Pipe

Size	Type	Size	Type
Feet	Inch	Feet	Inch
<i>12"</i>			
<i>42</i>			

Remarks:

Static Level	Total Rig Time	hrs.
Ground Level	Total Standby	hrs.
Tbp Of Casing	Drilling Mud	sacks

SIGNATURES

MIDNIGHT SUN.....

CLIENT.....

TITLE.....

TITLE.....



Field Report

13 MacDONALD ROAD
WHITEHORSE, YUKON
Y1A 4L1

PHONE (403) 633-3070
TELEX 036-8496

Started. *May 8*.....19*9*

Completed. *Apr 1*.....19*9*

NAME AND ADDRESS OF CLIENT	DESCRIPTION OF WORK	LOCATION OF WORK
<i>Com. transportation</i>	<i>U/W</i>	<i>Stewart King</i>
	<i>94-1A-3</i>	

FORMATION LOG			DESCRIPTION OF WORK	TIME			
FROM	TO	FORMATION		DATE	FROM	TO	HOURS
			MOVE 8" casing set 40' of 8" casing	<i>May 10</i>	<i>12:30</i>	<i>8:00</i>	<i>7.5</i>
<i>40</i>	<i>47</i>	<i>Gr. sand cobs</i>					
<i>47</i>	<i>100</i>	<i>silt</i>					
<i>100</i>	<i>175</i>	<i>silt</i>	Broke casing unable to close bit	<i>May 11</i>	<i>8:00</i>	<i>8:00</i>	<i>17</i>
			set up wait till 11:00 for Pullers Pulling casing to slow travel to where for Eger & 6" casing Leading	<i>May 12</i>	<i>8:00</i>	<i>4:00</i>	<i>8</i>
			Travel to start	<i>May 13</i>	<i>1:00</i>	<i>7:00</i>	<i>6</i>
			Pulling 175' casing	<i>"</i>	<i>8:00</i>	<i>6:00</i>	<i>10</i>

Rcord. of Casing & Pipe

Size	Type	Size	Type
------	------	------	------

Feet	Inch	Feet	Inch
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Remarks:

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Static Level

Ground Level

Top Of Casing

Total Rig Time

Total Standby

Drilling Mud

hrs.

hrs.

sacks

SIGNATURES

MIDNIGHT SUN.....

TITLE.....

CLIENT.....

TITLE.....



Field Report

13 MacDONALD ROAD
WHITEHORSE, YUKON
Y1A 4L1

PHONE (403) 633-3070
TELEX 036-8496

Started *Mar 8* 19*9*

Completed *Apr 1* 19*9*

NAME AND ADDRESS OF CLIENT	DESCRIPTION OF WORK	LOCATION OF WORK
<i>Comm Transport</i>	<i>W/U</i>	<i>Stewart King</i>
	<i>94-1A-3</i>	

FORMATION LOG			DESCRIPTION OF WORK	TIME			
FROM	TO	FORMATION		DATE	FROM	TO	HOUR
			MOVE 8" casing				
			Pull back to 100' 3 times	<i>Mar 18</i>	8:00	11:00	15
			blow oxing on Rapid Feed bank when using casing hammer				
			wentch.				
			change over to clutch bank, Not working	<i>Mar 19</i>	8:00	8:00	12
			change spools				
			Plugged bit trip out				
			Bit plugged trip hole	<i>Mar 20</i>	8:00	12:00	16
			Redwill from 180' Built seal box top of casing hammer				
<i>290</i>	<i>305</i>	<i>silt</i>	Put tent on				
			Blew hose off Fitting to Injection pump Trouble with supply Pump getting water picking up rocks Blow seal				

Rcord. of Casing & Pipe

Size	Type	Size	Type
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Feet	Inch	Feet	Inch
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Remarks:

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Static Level

Ground Level

Top Of Casing

Total Rig Time

Total Standby

Drilling Mud

hrs.

hrs.

sacks

SIGNATURES

MIDNIGHT SUN.....

TITLE.....

CLIENT.....

TITLE.....



Field Report

13 MacDONALD ROAD
WHITEHORSE, YUKON
Y1A 4L1

PHONE (403) 633-3070
TELEX 036-8496

Started Mar. 8 1994

Completed Apr. 1 1994

NAME AND ADDRESS OF CLIENT	DESCRIPTION OF WORK	LOCATION OF WORK
<u>Commins</u>	<u>W/W</u>	<u>Stewart</u>
	<u>94-1A-3</u>	<u>X-ray</u>

FORMATION LOG			DESCRIPTION OF WORK	TIME			
FROM	TO	FORMATION		DATE	FROM	TO	HOURS
			MOVE 6" casing				
			Trip out	Mar 27	8:00	5:00	9
			set 120' of 6" casing	"	5:00	8:00	3
			set 270' of 6" casing	Mar 28	8:00	12:30	16.5
490	520	silt		Mar 29	8:00	9:00	1.0
520	569	silt	Gr.	Mar 30	8:00	9:30	13.5
567	574	silt	Gr.	Mar 31			
574	579	silt	Sand Paa G.				
579	582	silt	Gr.				
			Trip out	Mar 31	8:00	11:00	3
			check hole set screens	"	11:00	5:00	6
			Develop	"	5:00	12:00	7
			rite shift 12:00-8:00 P.m.				
			Trip out clean up	Apr 1	8:00	2:00	6
			Load				
			travel to whse with drill	"	2:00	7:30	5.5

Rcd. of Casing & Pipe

Size	Type	Size	Type
6			
Feet	Inch	Feet	Inch
57.6			

Remarks: 100 G.P.M.
screen bottom 582' G.L.
1-80 slot
1-50 slot
1-2' riser + ~~1-2'~~ P-Packer
58 bit pin
Total Length 10' 6"

Static Level	Total Rig Time	hrs.
Ground Level	Total Standby	hrs.
Top Of Casing	Drilling Mud	sacks

SIGNATURES

MIDNIGHT SUN.....

CLIENT.....

TITLE.....

TITLE.....



Photo 001: Abandoned well enclosure.



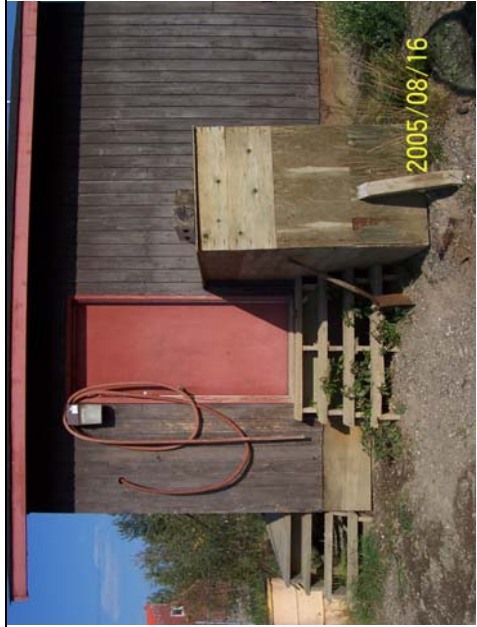



Photo 002: Wellhead of abandoned well.



Photo 003: Looking down abandoned dug well.



Photo 005: 5681 Stewart Crossing grader station facing west.

 <p>2005/08/16</p>	 <p>2005/08/18</p>
 <p>2005/08/16</p>	 <p>2005/08/16</p>
<p>Photo 009: 5690 Existing deep well enclosure and well house storage building.</p>	<p>Photo 174: 5690 water system that serves 5681 & 5682. (pressure tank, filter, pump controls, LMI proportion feed chlorination system).</p>
<p>Photo 008: 5682 Living Complex.</p>	<p>Photo 012: Paint and toluene drum storage.</p>