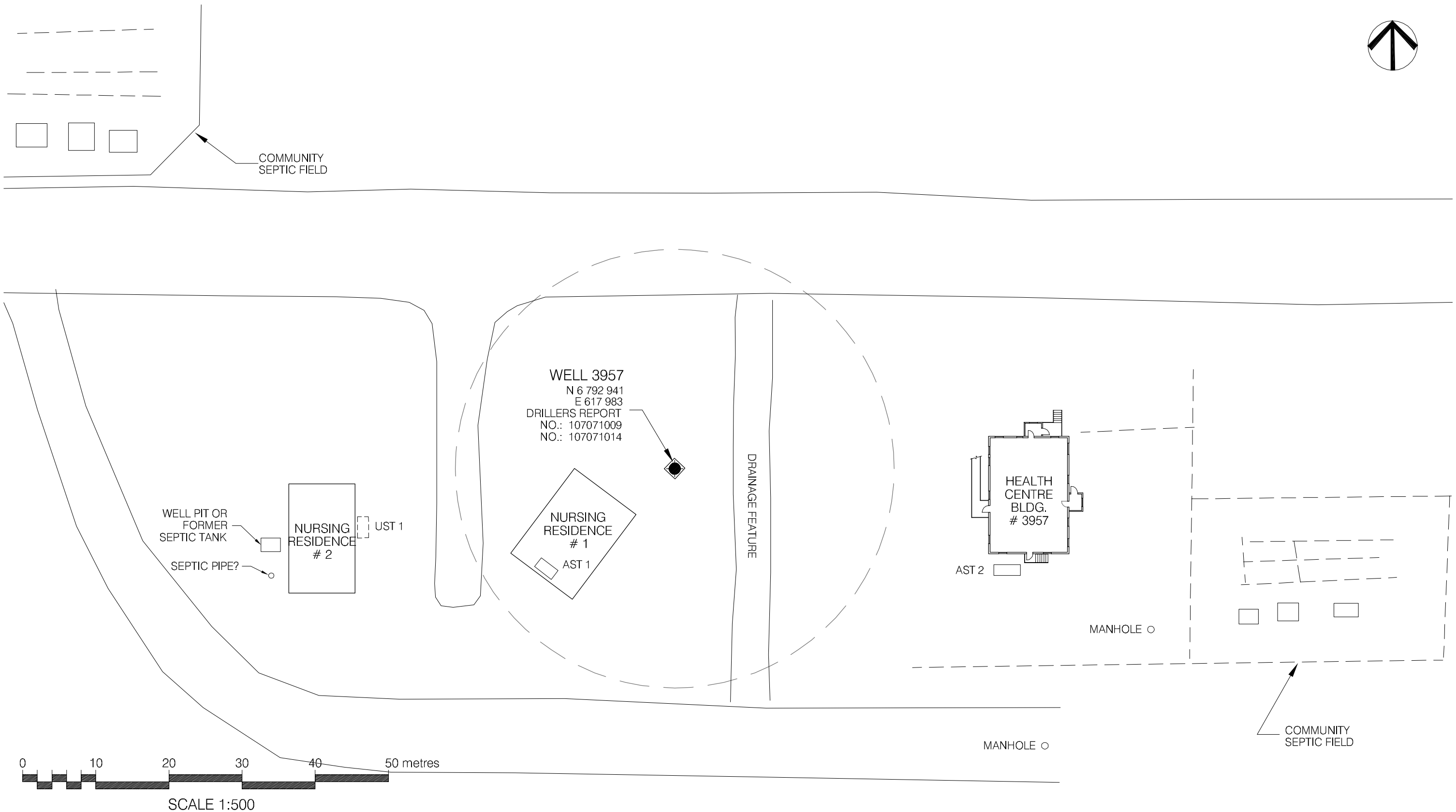


NOTES:

1. UTM COORDINATES OBTAINED WITH A HAND HELD GPS USING NAD83 SYSTEM AND ARE CONSIDERED TO BE ACCURATE TO 10.0 m, APPROXIMATELY.

30 m RADIUS FROM WATER WELL FOR CONSIDERATION OF PROXIMITY TO POTENTIAL CONTAMINANT SOURCES.

PLAN IS BASED UPON FIELD MEASUREMENTS ONLY AS EXISTING PLANS, IF IN EXISTANCE, WERE NOT ABLE TO BE LOCATED.

No.	DESCRIPTION	DATE	APPROVED
0	ISSUED FOR CLIENT REVIEW	DD/MM/YY	XXX

REVISION

EBA Engineering Consultants Ltd.

DESIGNED BY:	R. MARTIN
DRAWN BY:	J. BUYCK
DATE:	AUG. 2005
SCALE:	AS SHOWN
PROJECT No.:	1260002.003
ACAD FILENAME:	003-WESTERN REGION

CLIENT: Yukon
Highways and Public Works
Property Management Branch

SMALL PUBLIC WATER SYSTEMS ASSESSMENT
WESTERN REGION

GOVERNMENT OF YUKON
HIGHWAYS & PUBLIC WORKS

DESTRUCTION BAY HEALTH CENTRE BUILDING # 3957
SITE LOCATION DIAGRAM
WELL ID: 3957

REVISION ISSUE: 0

FIGURE No.: FIGURE 3957A

Z:\0201Drawings\1260002 Water Assessment YTG\003 -Western Region\destruction\1260002 D Bay Health Centre_3957A Site Plan.dwg, 9/21/2005 8:55:49 AM, Adobe PDF

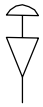
LEGEND


PUMP


PRESSURE GAUGE


GATE VALVE


CHECK VALVE

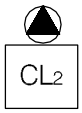

SOLENOID

#2 COMPONENT ID. No.
(SEE TABLE ON FOLLOWING PAGE)

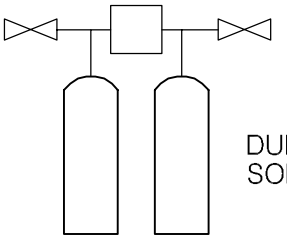
FLOW METER

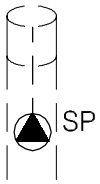
WATER FILTER
(CARTRIDGE TYPE)

PRESSURE TANK

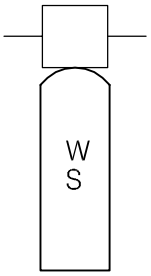


CHLORINE RESERVOIR AND
INJECTION PUMP


DUPLEX WATER
SOFTENER

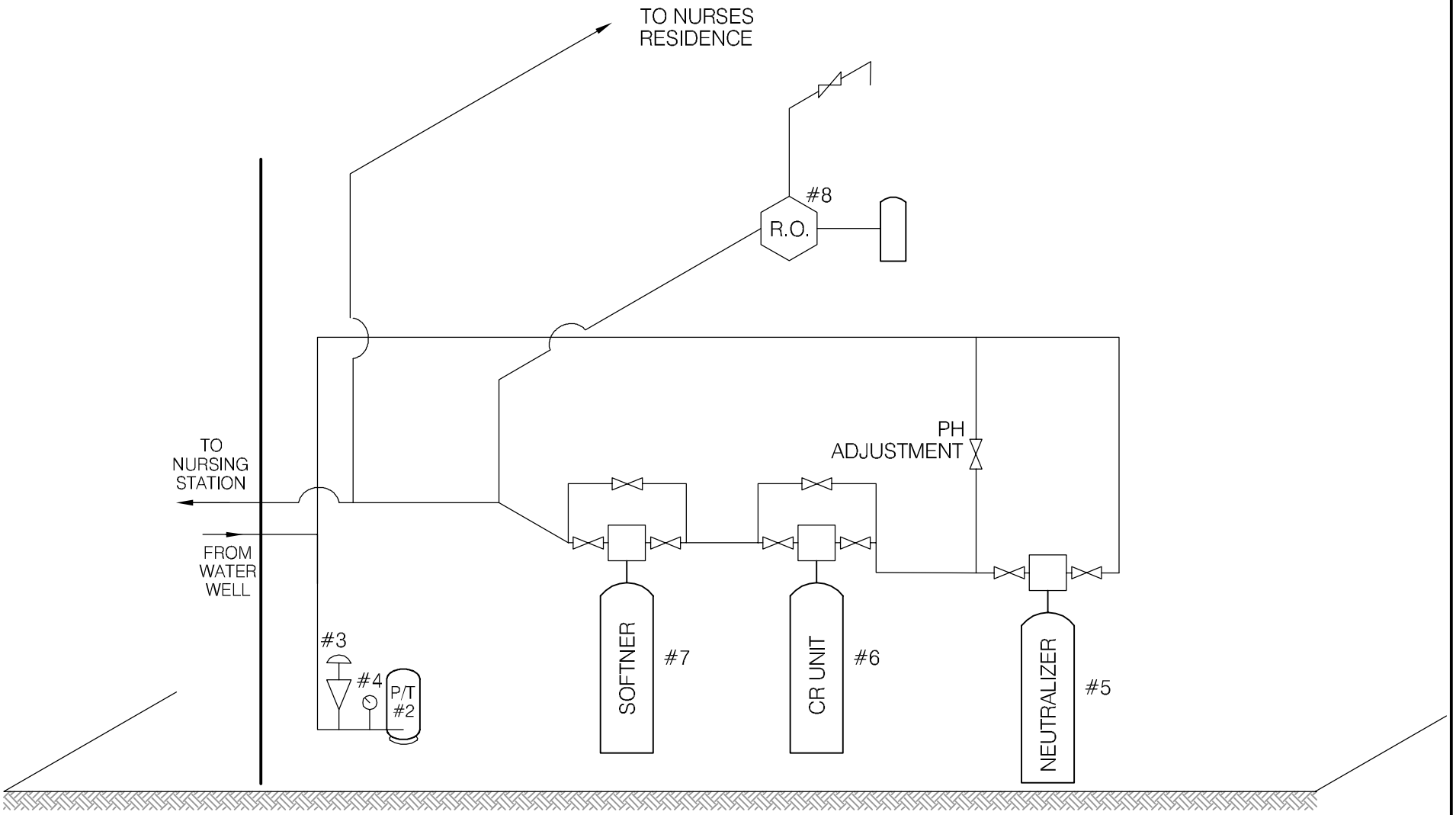


WELL WITH
SUBMERSIBLE PUMP



ACTIVATED
CARBON

EBA Engineering Consultants Ltd.			PROJECT	SMALL PUBLIC WATER SYSTEMS ASSESSMENT WESTERN REGION	
CLIENT Yukon Highways and Public Works Property Management Branch			TITLE	SCHEMATIC SYSTEM LEGEND	
DATE APRIL 2006	DWN. JSB	CHKD. RMM	FILE NO. 1260002		DRWG. LEGEND



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

EBA Engineering Consultants Ltd.			PROJECT	SMALL PUBLIC WATER SYSTEMS ASSESSMENT WESTERN REGION	
CLIENT Yukon Highways and Public Works Property Management Branch			TITLE	WATER SYSTEM DISTRIBUTION/TREATMENT SCHEMATIC SYSTEM ID.: 3957 DESTRUCTION BAY HEALTH CENTRE	
DATE SEPT. 2005	DWN. JSB	CHKD. RMM	FILE NO. 1260002.003		DWG.: FIGURE 3957-B

Z:\0201Drawings\1260002 Water Assessment YTG\003 -Western Region\destruction\1260002 D Bay Health Centre_3957BSchematic.dwg, 4/4/2006 1:25:05 PM, Adobe PDF, jbuyck

Western Region – Destruction Bay Health Centre
Building # 3957

DISTRIBUTION & TREATMENT SYSTEM DATA

Item	Description	Manufacturer	Model	Part No.	Serial No.	Size
1	SUB PUMP.	MONARCH				4"
2	PRESSURE TANK	CHALLENGER	PC66			20 GALLON
3	PRESSURE SWITCH	SQUARE D	FSG-2			2HP 1/4" NPT
4	PRESSURE GAUGE	MARSH	2" (0-100PSI)			
5	NEUTRALIZER	AQUA TECH	1.5 COROSEX	L5600	3339998 CC-1.5	10" x 54
6	COLOR REMOVAL	AQUA TECH	L5600-2.0	L5600CC	3375876 -20	12 x 52
7	WATER SOFTENER	AQUA TECH	L5600 3CHI		3375645	10x47
8	R.O SYSTEM	ELITE	TFC24			24 GPD.
9						
10						

TABLE 3957- 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?
3957	Destruction Bay Health Centre	9	Sept-04 to Jun-05	no	0/9	no	16-Jun-05	no

Table 3957-2: Water Quality Results

SOURCE:	Building 3957 - Destruction Bay Health Centre			GCDWQ Criteria		
Location/ Resident	Destruction Bay					
Address						
Treatment	Water softener, pH neutralizer and colour remover					
Disinfection	None					
Source of Water	On-site well					
Purpose of Sampling	Base Line	Base Line	Additional Analytical			
Sample Location						
Date Sampled	21-Sep-05	Jun-15-05	28-Jul-05	Lower	Upper Limit	
Physical Tests *(ALS)*				AO	MAC	AO
Colour (CU)	<5	<5.0	-			15
Conductivity (uS/cm)		810	-			
Total Dissolved Solids	490	525	-			500
Hardness CaCO3	<0.9	<3.3	-	AO >200 = poor, > 500 unacceptable[A]		
pH	**8.79**	**8.68**	-	6.5		8.5
Turbidity (NTU)	0.6	0.45	-		1	5
UV Absorbance			0.0080			
% UV Transmittance			98.2			
Dissolved Anions *(ALS)*						
Alkalinity-Total CaCO3	121	122	-			
Chloride Cl	8.9	7.68	-			250
Fluoride F	0.14	0.208	-		1.5	
Silicate SiO4			14.4			
Sulphate SO4	169	190	-			500
Nitrate Nitrogen N	<0.1	<0.10	-		10	
Nitrite Nitrogen N	<0.05	<0.10	-		3.2	
Ammonia Nitrogen N			-			
Total Phosphate PO4			0.0238			
Total Metals *(ALS)*						
Aluminum T-Al	<0.005	<0.050	-			
Antimony T-Sb	<0.0002	<0.0025	-		0.006	
Arsenic T-As	*0.0148*	*0.0114*	*0.0120*		0.025	
Barium T-Ba	<0.001	<0.10	-		1	
Boron T-B	1.31	1.28	-		5	
Cadmium T-Cd	<0.00001	<0.0010	-		0.005	
Calcium T-Ca		<0.50	-			
Chromium T-Cr	<0.0005	<0.010	-		0.05	
Copper T-Cu	0.006	0.190	-		1	
Iron T-Fe	0.04	0.207	-			0.3
Lead T-Pb	0.001	0.0064	-		0.01	
Magnesium T-Mg		<0.50	-			
Manganese T-Mn	<0.005	<0.010	-			0.05
Mercury T-Hg		<0.00020	-		0.001	
Potassium T-K		222	-			
Selenium T-Se		<0.0050	-		0.01	
Sodium T-Na	4.8	22.9	-			200
Uranium T-U	<0.0005	<0.00050	-		0.02	
Vanadium T-V			<0.030			
Zinc T-Zn	0.007	<0.25	-			5
Dissolved Metals *(ALS)*						
Aluminum D-Al			-		0.1	
Antimony D-Sb			-		0.006	
Arsenic D-As			*0.0119*		0.025	
Barium D-Ba			-		1.0	
Boron D-B			-		5	
Cadmium D-Cd			-		0.005	
Calcium D-Ca			-			
Chromium D-Cr			-		0.05	
Copper D-Cu			-			1.0
Iron D-Fe			-			0.3
Lead D-Pb			-		0.01	
Magnesium D-Mg			-			
Manganese D-Mn			-			0.05
Mercury D-Hg			-		0.001	
Potasium D-K			-			
Selenium D-Se			-		0.01	
Sodium D-Na			-			200
Uranium D-U			-		0.02	
Vanadium D-V			<0.030			
Zinc D-Zn			-			5.0
Organic Parameters						
Tannin and Lignin			<0.10			
Total Organic Carbon C			0.52			
Field Chemistry (EBA)						
pH			**9.11**	6.5		8.5
TDS (ppm)			414			500
EC (uS/cm)			836			
Temperature (°C)			21.7			
Free Available Chlorine						

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)

SMALL PUBLIC WATER SYSTEM ASSESSMENT

PART A: EBA Site Inspection

Inspector: Ryan Martin, Luke Lebel Date July 28, 2005

WELL ID #	Owner	Location Description
3957	YTG	Destruction Bay Health Centre

1. Well Location and Potential Contaminant Sources

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

b. Specific location: (Road or street, Building number, name of owner and/, legal description,
Km 1743 Alaska Highway

c. GPS location: N 6792941 E617983 elv 798m ± 15m

d Is there electric power? ☒ Yes ☐ No

e Is there outside water access? ☒ Yes ☐ No

f. Does the well system have:

☐ 15 or more service connections to a piped distribution system ? If so how many_____
Health Centre and 2 Nursing Residences

☐ 5 or more delivery sites on a trucked distribution system? If so how many_____

g. Nearest building, specify Located inside pumphouse

h. Distance from well to building _____

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

j. Distance from well to nearest point of known field: Community septics @ ~60m and ~60m upslope (downslope)

k. Well location relative to field: ☐ upslope ☒ downslope ☐ lateral

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
Service lines, likely mains

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 Pumphouse is unlocked
Entrance by animals? ☐ Yes ☒ No Evidence of mice, squirels, and insects

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 ~36m

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

☒ Yes ☐ No Describe _____

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

Potential Source 1: Indoor AST 1 ; Distance from well to Potential Source 1: ~20m
Potential Source 2: AST 2 ; Distance from well to Potential Source 2: ~26m
Potential Source 3: _____ ; Distance from well to Potential Source 3: _____
Potential Source 4: _____ ; Distance from well to Potential Source 4: _____

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

How many? 1 ☐ in use ☒ abandoned ☐ require proper sealing

2. Well and Wellhead information:

a. When was well installed? Year 1984 Month October
Deepened in September 1993

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 _____ ☒ No

f. Well casing: Diameter 15 cm Material: ☒ steel ☐ plastic ☐ concrete

g. Depth of well: 226 ft ☐ measured (if possible) ☐ reported ☒ from log

h. Static water level below ground: _____

☐ 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 _____ slot size(s) _____
Location of screen: from _____ to _____ from log reported

l. Is there a sump below the screen? ☐ Yes ☐ No unknown

m. Is the well head: ☒ in pumphouse ☐ in pit ☐ pitless adaptor ☐ in a building

☐ in a wooden enclosure other, describe _____

n. If the well head is located in a wooden enclosure,

i. Is the well head below grade? describe in detail ~ 0.35 m below grade

ii. Are there signs of ponding on the enclosure(e.g. water stains, etc.)? ☒ Yes ☐ No
rust on casing

iii. Is the wellhead enclosed by fiberglass insulations? ☐ Yes ☒ No styrofoam

iv. Any evidence of rodents? Specify Mice and Squirrels

v. Does the well casing have a proper seal cap? ☒ Yes ☐ No

If no, describe condition split gasket cap modified for artesian well

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…)_____

---

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
capacity reduces to less than artesian when pumped for a period of time

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 _____

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: Heat trace and insulation

l. Comments on pump installation: _____

6. Conclusions

a. Comments on overall installation:

One of the nursing residences is only supplied by a garden hose.

b. Recommendations: _____

PART B: EBA Site Inspection

Inspector: BERT ALBISSER Date JULY 28/05

WELL ID #	Owner	Location Description
3957	YTG	D BAY HEALTH CENTRE

6. Water Treatment

a. Is well water treated? ☑ Yes ☐ No; Type of treatment:

☐ chlorination ☑ iron and or manganese removal ☑ other NEUTRALIZER FILTER CR FILTER ~~WATER SOFTENER~~ R.O SYSTEM (NURSES RES)

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_____

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 ☐ H_2S ☐ Other _____

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: NURSES RESIDENCE BASEMENT

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: _____

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: _____

Overall Tank

What are the tank size and dimensions?

_____

What material is the tank constructed of? _____

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

8. Conclusions

a. Comments on overall installation:

THIS IS A REASONABLY GOOD INSTALLATION WITH THE FOLLOWING EXCEPTION - FILTER DRAIN LINES HAVE NO AIR GAP
FILTER TANKS ARE NOT RESTRAINT.

b. Recommendations:

BRING FILTER INSTALLATION TO CODE.
FILTER SYSTEM REQUIRES FINE TUNING A NEUTRALIZER IS OVER ADJUSTING THE PH. FIELD TESTS SHOWED 9.4.
ADD PREFILTER AND UV. SHOCK CHLORINATER THE COMPLETE SYSTEM.
INSTITUTE BI-ANNUAL WELL MAINTENANCE PROGRAM.

Field Report 107071009

MIDNIGHT SUN DRILLING CO. LTD. WHITEHORSE Y.T.
PH. 633-3070 TELEX 036-8496
P.O. BOX 4391
WHITEHORSE, YUKON

Started Oct. 3 ..... 19 89

Completed Oct. 4 ..... 19 89

NAME AND ADDRESS OF CLIENT	DESCRIPTION OF WORK	LOCATION OF WORK
HEALTH + WELFARE	W / W	Heath centre
DESTRUCTION BAY		Destruction Bay
YUKON YOR 1H0	89-1A-38	

FORMATION LOG FROM	TO	FORMATION	DESCRIPTION OF WORK	TIME DATE	FROM	TO	HOURS
			MOVE				
			move on set up	oct. 3	8:00	9:30	1.5
0	2	Gr.	silt	"	9:30	4:00	6.5
2	11	silt					
11	49	Gr.	silt clay.				
49	61	clay					
61	75	Till					
75	83	Gr.	sand silty				
			set screen Develop	"	4:00	8:00	4
			Develop	oct. 4	8:00	9:00	1
			move off.	"	9:00	9:30	0.5

crd. of Casing & Pipe Size	Type	Size	Type
6			
Feet	Inch	Feet	Inch
80	6		

Remarks:
1-6" odex shoe (ss)
20 slot
5 7/8" bit pin
8" riser K packer
5 GPM

Static Level		Total Rig Time	hrs.
Ground Level	21'	Total Standby	hrs.
Top Of Casing		Drilling Mud	sacks

SIGNATURES

MIDNIGHT SUN..... CLIENT.....

TITLE..... TITLE.....

Willow Printers

Field Report 107071014

13 MacDONALD ROAD
WHITEHORSE, YUKON
Y1A 4L1

PHONE (403) 633-3070
TELEX 036-8496

Started..Sept..27..19.93

Completed..Oct..7.....19..

ME AND ADDRESS OF CLIENT	DESCRIPTION OF WORK	LOCATION OF WORK
ublic Works Canada W/W		Health center
24 Ranger Road		Destruction Bay
-Pat Zaccarelli	93-12-17	Dewatering Work

FORMATION LOG			DESCRIPTION OF WORK	TIME			
OM	TO	FORMATION		DATE	FROM	TO	HOURS
			MOVE				
			Loading	Sept. 27	8:00	12:00	4
			Travel	"	1:00	5:00	4
			remove fence	"	5:00	5:30	0.5
			move on set up	"	5:30	7:30	2
			Disconnect Pump ready to Pull				
			Pull pump	Sept. 28	8:00	8:30	0.5
			Pull casing Redrill	"	8:30	7:30	11
			to 60' Trouble Plugging				
			+ closing bit				
			Redrill to 83'	Sept 29	8:00	9:00	1
3	89	Gr.	sand silt	"	9:00	7:00	10
	154	till					
4	161	silt	Gr. Sand				
1	172	clay					
7	198	silt	clay Gr.				
8	226	till	with silt clay + Gr layers				

. of Casing & Pipe			
e	Type	Size	Type
t	Inch	Feet	Inch

Remarks:

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

SIGNATURES

IDNIGHT SUN..... CLIENT.....

ITLE..... TITLE.....

Environment Canada Environnement Canada

Enforcement and Emergencies Section
91782 Alaska Highway, Whitehorse, YT Y1A 5B7
PH: 867.667.3400 FAX: 867.667.7962

Spill Report Information

Spill #	0334
Jurisdiction	Yukon
Community	Destruction Bay
Address	
Highway	
Milepost	
Feature	Destruction Bay
Location and Cause	vent leak
Latitude	61.25274646
Longitude	-138.80244846
Incident Date	9/26/2003 12:00:00 PM
Lead Agency	Yukon Government - Environmental Programs
Other Agency	
Company(s)	Yukon Electrical Company Ltd
Amount	500
Units	Litres
Quantity	Estimate
Release Description	Spilled
Additional Quanitit	
Concentration	
Concentration Unit	
Phase	Liquid
Major Contaminant	Diesel
2nd Contaminant	
3rd Contaminant	
4th Contaminant	
Outcome	cleaned-up but soil had not been removed at time of report - no further information on file

Environment Canada Environnement Canada

Enforcement and Emergencies Section
91782 Alaska Highway, Whitehorse, YT Y1A 5B7
PH: 867.667.3400 FAX: 867.667.7962

Spill Report Information

Spill #	9303
Jurisdiction	Yukon
Community	Destruction Bay
Address	
Highway	
Milepost	
Feature	Destruction Bay
Location and Cause	untreated sewage spilled due to mechanical failure - rubber coupling separated on the force main pipe elbow
Latitude	61.252546
Longitude	-138.800598
Incident Date	2/5/1993 2:30:00 PM
Lead Agency	Department of Indian Affairs and Northern Development
Other Agency	Yukon Government - Transportation
Company(s)	Community of Destruction Bay
Amount	37,800
Units	Litres
Quantity	Estimate
Release Description	Spilled
Additional Quanitit	
Concentration	
Concentration Unit	
Phase	Liquid
Major Contaminant	Raw Sewage
2nd Contaminant	
3rd Contaminant	
4th Contaminant	
Outcome	effluent flowed over natural terrain and collected in a pond beside Kluane Lake - some collected, most frozed - to be excavated to sewage lagoon

Environment Canada Environnement Canada

Enforcement and Emergencies Section
91782 Alaska Highway, Whitehorse, YT Y1A 5B7
PH: 867.667.3400 FAX: 867.667.7962

Spill Report Information

Spill #	9304
Jurisdiction	Yukon
Community	Destruction Bay
Address	
Highway	
Milepost	
Feature	Destruction Bay
Location and Cause	untreated sewage spilled due to mechanical failure - coupling/pipe separation again
Latitude	61.252546
Longitude	-138.800598
Incident Date	3/29/1993
Lead Agency	Department of Indian Affairs and Northern Development
Other Agency	Yukon Government - Transportation
Company(s)	Community of Destruction Bay
Amount	11340
Units	Litres
Quantity	Estimate
Release Description	Spilled
Additional Quanitit	
Concentration	
Concentration Unit	
Phase	Liquid
Major Contaminant	Raw Sewage
2nd Contaminant	
3rd Contaminant	
4th Contaminant	
Outcome	similar to PACY 9303 - sewage collected in same pond - repairs to sewage system to be completed - spill being cleaned up with vacuum truck

Environment Canada Environnement Canada

Enforcement and Emergencies Section
91782 Alaska Highway, Whitehorse, YT Y1A 5B7
PH: 867.667.3400 FAX: 867.667.7962

Spill Report Information

Spill #	9515
Jurisdiction	Yukon
Community	Destruction Bay
Address	
Highway	
Milepost	
Feature	Destruction Bay
Location and Cause	pipeline sleeve broke 10m from final discharge - unknown cause for breakage
Latitude	61.2480555555556
Longitude	-138.793888888889
Incident Date	5/12/1995
Lead Agency	Department of Indian Affairs and Northern Development
Other Agency	
Company(s)	YTG
Amount	180
Units	Litres
Quantity	Estimate
Release Description	Spilled
Additional Quanitit	
Concentration	
Concentration Unit	
Phase	Liquid
Major Contaminant	Raw Sewage
2nd Contaminant	
3rd Contaminant	
4th Contaminant	
Outcome	spill occurred sometime at the end of April 1995 - not reported to spill line - pipeline repaired - improvements to system to be made byt YTG in summer

Environment Canada Environnement Canada

Enforcement and Emergencies Section
91782 Alaska Highway, Whitehorse, YT Y1A 5B7
PH: 867.667.3400 FAX: 867.667.7962

Spill Report Information

Spill #	9634
Jurisdiction	Yukon
Community	Destruction Bay
Address	
Highway	
Milepost	
Feature	Destruction Bay
Location and Cause	break in main sewer line
Latitude	61.2480555555556
Longitude	-138.793888888889
Incident Date	6/12/1996
Lead Agency	Department of Indian Affairs and Northern Development
Other Agency	
Company(s)	YTG
Amount	
Units	
Quantity	Unknown
Release Description	Spilled
Additional Quanitit	
Concentration	
Concentration Unit	
Phase	Liquid
Major Contaminant	Raw Sewage
2nd Contaminant	
3rd Contaminant	
4th Contaminant	
Outcome	pump activated 3x per day - approx 500 ga each time but sewage doesn't reach lagoon - DIAND inspected - to be repaired - no risk to environment

Environment Canada Environnement Canada

Enforcement and Emergencies Section
91782 Alaska Highway, Whitehorse, YT Y1A 5B7
PH: 867.667.3400 FAX: 867.667.7962

Spill Report Information

Spill #	9649
Jurisdiction	Yukon
Community	Destruction Bay
Address	
Highway	
Milepost	
Feature	Destruction Bay
Location and Cause	leaking sewer line
Latitude	61.2480555555556
Longitude	-138.793888888889
Incident Date	8/7/1996
Lead Agency	Department of Indian Affairs and Northern Development
Other Agency	
Company(s)	YTG
Amount	50
Units	Gallons (US, liquid)
Quantity	Estimate
Release Description	Leaked
Additional Quanitit	rate of spill reported at 1L/s
Concentration	
Concentration Unit	
Phase	Liquid
Major Contaminant	Raw Sewage
2nd Contaminant	
3rd Contaminant	
4th Contaminant	
Outcome	leak stopped 8/9/96 - line repaired by patching - Tony will take up with YTG on way back from site - no further information on file

Environment Canada Environnement Canada

Enforcement and Emergencies Section
91782 Alaska Highway, Whitehorse, YT Y1A 5B7
PH: 867.667.3400 FAX: 867.667.7962

Spill Report Information

Spill #	9672
Jurisdiction	Yukon
Community	Destruction Bay
Address	
Highway	
Milepost	
Feature	Destruction Bay
Location and Cause	leaking utilidor - similar to Spill No. 9649
Latitude	61.2480555555556
Longitude	-138.793888888889
Incident Date	9/24/1996 2:30:00 PM
Lead Agency	Department of Indian Affairs and Northern Development
Other Agency	
Company(s)	YTG
Amount	
Units	
Quantity	Unknown
Release Description	Leaked
Additional Quanitit	
Concentration	
Concentration Unit	
Phase	Liquid
Major Contaminant	Raw Sewage
2nd Contaminant	
3rd Contaminant	
4th Contaminant	
Outcome	eduction truck needed to pump up before it enters creek - no further information on file

Photo 0586: 3957 Destruction Bay Health Centre

Photo 0595: 3957 Well house

Photo 0594: 3957 Wellhead in pit below floor at well house

Photo 0596: 3957 Nursing residence #2

Photo 0597: 3957 Abandoned well nursing residence # 2 (back)

Photo 0591: 3957 Above ground fuel storage tank

Photo 0588: 3957 Destruction Bay community septic system # 1

Photo 0590: 3957 Destruction Bay community septic system # 2

Photo 0116: 3957 (from left to right) Pressure tank, water softener and brine tank, colour remover, neutralizer and brine tank

Photo 0118: 3957 Reverse osmosis treatment system for nursing residence