

Part III Form 2 Section 11. ANNUAL REPORT.

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Environment

Ministry of the Ministère de Environment l'Environnement

| Drinking-Water System Number: | 220000460 |
|---------------------------------|---------------------------------------|
| Drinking-Water System Name: | North Bay WTP |
| Drinking-Water System Owner: | City of North Bay |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | January 01, 2006 to December 31, 2006 |

| <u>Complete if your Category is Large Municipal</u> <u>Residential or Small Municipal Residential</u> | <u>Complete for all other Categories.</u> |
|---|--|
| Does your Drinking-Water System serve more than 10,000 people? Yes [X] No [] | Number of Designated Facilities served: |
| Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [] | Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No [] |
| under O. Reg. 170/03 Schedule 22 will be available for inspection. | Number of Interested Authorities you report to: |
| The Corporation of the City of North Bay P.O. Box 360 200 McIntyre Street East North Bay, Ontario P1B 8H8 | Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No [] |

Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems, which receive all of their drinking water from your system:

| Drinking Water System Name | Drinking Water System Number | | | |
|----------------------------|------------------------------|--|--|--|
| NA | | | | |

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [] No [] NA

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Indicate how you notified system users that your annual report is available, and is free of charge.

[X] Public access/notice via the web

- [Public access/notice via Government Office
- [] Public access/notice via a newspaper
- [] Public access/notice via Public Request
- [] Public access/notice via a Public Library

[X] Public access/notice via other method Noted on Utility billing.

Describe your Drinking-Water System

The North Bay Water Treatment Plant is a pumping station which partially treats water from Trout Lake which is part of the Mattawa River watershed. It was originally placed in service in 1929. The process consists of pH adjustment (Sodium Carbonate), fluoridation Hydrofloursilicic Acid) and disinfection (Sodium Hypochlorite). The chemical treatment facilities are housed in a separate building completed in 1984.

The Permit to Take Water permits consumption up to 79,500 cubic meters per day. The North Bay Water Treatment Plant serves a population of approximately 56,000. There is a 12 kW standby diesel gen set at the plant to power emergency lighting and the chemical feed pumps. There is also a 1000 kW portable gen set with a manual switch over to provide partial standby power to the facility during power outages.

The intake structure is a 1200 mm diameter series 45 polyethylene pipe, with the capacity of 80,000 m3/day, which extends approximately 300 meters into Delaney Bay of Trout Lake. The intake was constructed in 1973 and includes an intake crib in approximately 21.5 meters of water at low water level. The intake has a 90 degree elbow terminating with fiber reinforced plastic (FRP) cage. At the shore the polyethylene pipe connects to a concrete pressure pipe which runs to an intake chamber and then a junction chamber. The intake then discharges into a 1.8 m by 1.35 m high reinforced concrete channel to the screen area located inside the pumping station. The North Bay WTP is also equipped with another intake pipe and structure described as follows: a 900 mm iron intake (not in service) extending 122 m into Delaney Bay of Trout Lake at a depth of 7.6 meters meters off the lake bottom with a capacity of 50,000 m3/day.

Raw water is fed through the WTP without the aid of a low lift pumping station. Raw water is chlorinated at the intake structure. Water then enters the plant and passes through two stainless steel 6 mm mesh FRP framed screens in series followed immediately by the fluoride application point. The plant is also equipped with a 100 m3 wet well and four electrically driven high lift pumps, operating at the rated head of 83.8 m, with a firm capacity of 79,500 m3/d (with the largest pump - pump #3-out of service). The suction connections for each high lift pump are connected

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directly to the wet well. The water is also disinfected with the aid of ultraviolet disinfection units, located at the discharge of each high lift pump. Following the discharge of the high lift pumps, the pH of the water is adjusted via the soda ash application point before being directed into the distribution system.

The treated water is pumped to the distribution system, which incorporates the following storage and pumping facilities:

The Canadian Forces Base (CFB) Reservoir and Re-chlorination Facility is an 1820 m3 capacity reservoir equipped with a sodium hypochlorite re-chlorination system. The facility is also comprised of an on-line, continuous water quality analyzer for free chlorine and a standby pump to provide water during power outages.

The Birches Road Standpipe and Re-chlorination Station is an 11,775 m3 capacity steel un-baffled treated water standpipe equipped with a sodium hypochlorite re-chlorination system. The facility is also comprised of an on-line, continuous water quality analyzers for free chlorine and turbidity, a fixed 7.5 kW, 120/240 Volt, single phase, diesel powered gen set to power the standpipe systems and communications during prolonged power outages.

The Judge Avenue Valve Chamber and Re-chlorination Station is equipped with a sodium hypochlorite re-chlorination system. The facility is also comprised of an online, continuous water quality analyzers for free chlorine and turbidity, a fixed 7.5 kW, 120/240 Volt, single phase, diesel powered gen set to power the re-chlorination and SCADA communications during prolonged power outages.

The Ellendale Reservoir (also known as the High Lift Pumping Station) is a double cell 18,200 m3 capacity reservoir equipped with a sodium hypochlorite rechlorination system. The facility is also comprised of an on-line, continuous water quality analyzers for free chlorine and turbidity and a standby gen set to operate the entire facility during power outages.

The Canadore Pumping Station is a facility equipped with high lift pumps and pressurized cushion tanks maintain to pressure in a pressurized zone of the distribution system servicing Canadore College and Nipissing University. There is an on-line continuous water quality analyzer to monitor free chlorine residual and a standby gen set to provide power to operate one (1) 50 hp pump (Pump P0 or P2) during power outages.

Although the North Bay WTP draws water from a surface water source and currently only provides disinfection with Cl2 and UV, the owner has been granted regulatory relief to install chemically assisted filtration, or equivalent. Subject to Section 9.1 of the C of A, the owner is not required to comply with the provisions listed in Schedule 1 of Ontario Regulation 170/03 until March 31, 2008. Construction of a new membrane filtration water plant began in May 2006.

List all water treatment chemicals used over this reporting period

Sodium Carbonate Sodium Hypochlorite Hydrofluosilicic Acid

Were any significant expenses incurred to?

- **[X]** Install required equipment
- [X] Repair required equipment
- [X] Replace required equipment

Describe

- Installed a solenoid valve by-pass for pre-chlorination System at the WTP
- Installed a sodium hydroxide feed system for pilot study at theWTP
- Installed a raw water pH continuous on-line analyzer
- Installed a new potable water line to the chemical building at the WTP
- Repairs to the Birchs Road Standpipe, included re-sealing the floor with epoxy paint and repairs and painting the exterior of the bottom ring
- Replaced sodium hypochlorite re-chlorination system c/w auto switchover at the Birchs Road Standpipe. Also replaced the chemical injection point corporation stop and fittings
- Installed VFD controls on the 2 service pumps at the CFB Reservoir/Pumping Stn
- Replace the motor on one the CFB service pump, old one repaired as a spare
- Replaced 20 m of 600 mm water main on Milani Rd. @ Chippewa Creek
- Replaced 250 mm water main on Nipissing St. from Main St. to Jane St. (3 blocks)
- Replaced a 600 mm butterfly valve on Milani @ O'Brien
- Replaced 600 mm butterfly valve and a 400 mm gate valve on Ski Club Rd.
- Replaced 2 existing 300 mm and 400 mm water mains with 200 m of 7 50 mm pipe on Lakeside Dr. between Trout Lake Rd. and Ski Club Road
- Completed reconstruction of Fisher St. from 5th Ave. to 2nd Ave.
- Completed reconstruction of Jane St. from Nipissing St. to Rock St.
- Cleaned 800 m of 100 mm water main on lakeshore Dr. and Premier Rd. from Birch's Rd to Archibald Rd.
- Completed relocation of water services from the 100 mm water main to the 200 mm water main on Premier Rd.
- Replaced 800 m of water main on Eloy's Rd.
- Looped in the dead end water main of Douglas St. to Hillcrest Ave.
- Replaced the 100 mm water main on Lakeshore Dr. from Sunset to Mowat with 400 mm pipe.

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Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

| Incident Date | Parameter | Result | Unit of | Corrective Action | Corrective |
|---------------|---|--------|--------------------|---|-------------|
| | | | Measure | | Action Date |
| 8-May-2006 | Microbiological General Background Plate Count | >200 | CFU/100 mL | Water main flushed and re-sampled 9 May 2006. Re-sample results clear of any bacterial contamination | 9- May-2006 |
| 4-Jul-2006 | Turbidity | 1.29 | ntu | Treated turbidity exceeded 1.0 ntu for 21 minutes and peaked at 1.29 ntu. Main 16" line was damaged by contractors. | 4-Jul-2006 |
| 18-Jul-2006 | UV Disinfection | | | Emergency pumpage of water with chlorination only. UV offline 07:15- 08:43. Hydro restored at 08:50. WTP back online with full normal disinfection (UV + chlorination) 09:05. | 18-Jul-2006 |
| 26-Jul-2006 | Turbidity | 1.11 | ntu | After talking with MOH to inform that high turbidity was treated water and raw water turbidity was 0.44 ntu and also chlorine residual for treated was 1.625 mg/L free, the health unit indicated the plant could return to normal operations. Notification was to exercise due diligence. | 27-Jul-2006 |
| 18-Aug-2006 | Chlorine | < 0.05 | mg/L | Suspect loss of chlorine residual was due to new chlorine probe membrane cap having been installed earlier in the day and it was burning in. As a precaution, the pump well was spiked with sodium hypochlorite before the plant was restarted to ensure the required chlorine residual was re- established. Chlorine residual was re- established. | 18-Aug-2006 |
| 18-Aug-2006 | UV Disinfection | < 40 | MJ/cm ² | #3 UV reactor shut down 08:44:51 - 08:47:57 resulting in log removal of Giardia and Crypto to drop below provincial regulation for approximately 3 minutes. #2 reactor manually shut down 09:29:53 - 09:32:10 resulting in log removal of Giardia and Crypto to drop below provincial regulation for approximately 3 minutes. Discharge valve not open. After #2 reactor alarm, everything running good. | 18-Aug-2006 |
| 21-Aug-2006 | Virus removal | < 4 | log | Giardia and crypto reduction values dropped below minimum for 2 minutes; 32 seconds from 22:44:06 to 22:46:38. Chlorine was 1.70 mg/L free. Reviewed trends and printed graphs. Restarted plant. Left #3 drive off (this was the problem pump). Tech onsite Tuesday morning trying to fix problem. | 22-Aug-2006 |



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| 22-Aug-2006 | UV Disinfection | < 40 | mJ/cm ² | Low UV dose on #3 reactor. At 13:01 pump failed and adverse for 3 minutes 2 seconds. Chlorine residual stayed constant at 1.43 mg/L. 2 other reactors were running and experienced no problems. Changed sensor from manual to auto, reset fault, re-started and monitored. Corrective maintenance was completed on unit, unit now operating normally. | 30-Aug-2006 |
|-------------|--------------------|------|--------------------|--|-------------|
| 8-Sep-2006 | UV Disinfection | < 40 | mJ/cm² | Low UV dose event 07:27:00- 07:29:29. Chlorine residual during event 1.55 mg/L free. Mechanical failure led to subsequent UV fault. Capacitor was changed and cause of event was corrected. | 8-Sep-2006 |
| 26-Sep-2006 | Virus removal | < 4 | log | Giardia and crypto dropped below provincial regulations for approximately 3 minutes. #2 reactor failed on ballast ground fault. 4 capacitors need to be replaced. Switch to #2 pump/reactor. Now running in auto. | 26-Sep-2006 |
| 19-Oct-2006 | Virus removal | < 4 | log | Giardia and crypto dropped below provincial regulations. New chlorine pump installed and tested. Discharge valve was closed. Treated chlorine residual leaving plant dropped to cl2F 0.18 mg/L (non-reportable). Virus from 13:45:45 to 13:51:00 dropped below 4.0 log removal (5 min 15 sec) due to the chlorine residual dropping below 0.18 mg/L. Once valve on discharge was opened, everything back to normal. | 19-Oct-2006 |
| 26-Oct-2006 | Virus removal | < 4 | log | Giardia and crypto log removal dropped below provincial regulation for 2 minutes 2 seconds. Power failure on #3 reactor caused UV alarm. Replaced blown capacitor and put #3 reactor back online. | 27-Oct-2006 |
| 11-Nov-2006 | Virus removal | < 4 | log | Required dosage was reinstated 123 seconds after second pump started. Also increased hypo pump trim. | 11-Nov-2006 |
| 22-Dec-2006 | Fluoride | 1.56 | mg/L | 12:51 fluoride spike from 0.63 mg/L to 1.56 mg/L. 12:53 fluoride spike peaked at 1.68 mg/L and gradually dropped. 13:03 fluoride dropped to 0.99 mg/L. 13:05 fluoride reading 0.81 mg/L. Fluoride exceeded MAC of 1.50 mg/L for 12 minutes. | 22-Dec-2006 |

| when obloidgical | testing done | under seen | | ig this reporting | 5 per lou. | | |
|--|--------------|------------|----------|-------------------|------------|---------|----------|
| | Number | Range of | Range of | Number | Range of | Number | Range of |
| | of | E.Coli | Total | of Samples | Results | of | Results |
| | Samples | Results | Coliform | Back-ground | Background | Samples | HPC |
| | _ | (#-#) | Results | Colony | Colony | HPC | Counts |
| | | | (#-#) | Counts | Counts | Counts | (#-#) |
| | | | | | (#-#) | | |
| Raw | 52 | 0 - 5 | 0 - 51 | 52 | 0 ->200 | NA | NA |
| Treated | 52 | 0-0 | 0 – 0 | 52 | 0 - 0 | 26 | 0 - 5 |
| Distribution Fixed Sites (reservoirs & rechlorination) | 330 | 0 - 0 | 0 - 0 | 329 | 0 - 21 | 56 | 0 - 6 |
| Distribution Random Sites | 524 | 0 - 0 | 0 – 0 | 524 | 0 - >200 | 72 | 0 - 138 |

Microbiological testing done under section 8-2 during this reporting period.

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

POE Grab Samples

| | Number of Grab Samples | Range of Results (min #)-(max #) |
|--|---------------------------|-------------------------------------|
| Turbidity | 306 | 0.31-0.678 mg/L |
| Chlorine | 471 | 1.12 – 1.77 mg/L |
| Fluoride (If the DWS provides fluoridation) | 233 | 0.38 – 0.67 mg/L |

NOTE: For continuous monitors use 8760 as the number of samples.

NOTE: Record the unit of measure if it is **not** milligrams per litre.

Distribution Grab Samples

| | Number of Grab Samples | Range of Results (min #)-(max #) |
|-----------------------|------------------------------|-------------------------------------|
| Chlorine Fixed Sites | 365 | 0.21 – 2.00 mg/L |
| Chlorine Random Sites | 524 | 0.07 – 1.12 mg/L |

NOTE: For continuous monitors use 8760 as the number of samples.

POE On-line Continuous Analyzers

| | Number of | Range of Results |
|------------------------|-----------|----------------------|
| | Grab | (min #)-(max #) |
| | Samples | |
| Turbidity | 8760 | 0.0 – 6.0 NTU |
| Free Chlorine Residual | 8760 | 0 – 2.0 mg/L |
| Fluoride (If the DWS | 9760 | 0.0 1.68 mg/I |
| provides fluoridation) | 0/00 | 0.0 – 1.00 mg/L |

NOTE: For continuous monitors use 8760 as the number of samples.



Summary of additional testing and sampling carried out in accordance with the requirement of an approval or order.

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|---------------------------------|-----------|-----------------|--------|-----------------|
| NA | | | | |
| | | | | |

Summary of Inorganic parameters tested during this reporting period or the most recent

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| Parameter | Sample Date | Result Value | Unit of | Exceedance |
|-----------|------------------|---------------------|-------------|------------|
| | | | Measure | |
| Antimony | 25 Jan 06 | <0.001 | mg/L | |
| Arsenic | 25 Jan 06 | <0.0014 | mg/L | |
| Barium | 25 Jan 06 | 0.014 | mg/L | |
| Boron | 25 Jan 06 | 0.007 | mg/L | |
| Cadmium | 25 Jan 06 | <0.00001 | mg/L | |
| Chromium | 25 Jan 06 | 0.0019 | mg/L | |
| Lead | 19 Jan 06 | <0.5 to 0.7 | mg/L | |
| | 25 Jan 06 | <0.0022 | mg/L | |
| Mercury | 25 Jan 06 | <0.0000001 | mg/L | |
| Selenium | 25 Jan 06 | <0.0016 | mg/L | |
| Sodium | 25 Jan 06 | 12 | mg/L | |
| Uranium | 25 Jan 06 | <0.0016 | mg/L | |
| Fluoride | 25 Jan 06 | 0.7 | mg/L | |
| Nitrite | 25 Jan 06 | <0.1 | mg/L | |
| | 28 Mar 06 | <0.1 | mg/L | |
| | 15 May 06 | <0.1 | mg/L | |
| | 15 Aug 06 | <0.01 | mg/L | |
| | <u>14 Nov 06</u> | <u><0.01</u> | <u>mg/L</u> | |
| | Average | 0.06 | mg/L | |
| Nitrate | 25 Jan 06 | 0.2 | mg/L | |
| | 28 Mar 06 | 0.2 | mg/L | |
| | 15 May 06 | 0.1 | mg/L | |
| | 15 Aug 06 | 0.2 | mg/L | |
| | <u>14 Nov 06</u> | <u>0.2</u> | <u>mg/L</u> | |
| | Average | 0.2 | mg/L | |



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|-----------|------------|----------------|-------------|-----------------|---------|-----------------------|
| Summary o | of Organic | narameters sam | nled during | y this reportin | g perio | d or the most recent |
| summary o | n organie | | prea aarmg | | | a of the most feethe |

| Parameter | Sample Date | Result | Unit of | Exceedance |
|--|-------------|--------|---------|------------------------|
| | • | Value | Measure | |
| Alachlor | 25 Jan 06 | <0.5 | ug/L | |
| Aldicarb | 25 Jan 06 | <5 | ug/L | $DL > \frac{1}{2} MAC$ |
| Aldrin + Dieldrin | 25 Jan 06 | <0.012 | ug/L | |
| Atrazine + N-dealkylated metobolites | 25 Jan 06 | <1 | ug/L | |
| Azinphos-methyl | 25 Jan 06 | <2 | ug/L | |
| Bendiocarb | 25 Jan 06 | <2 | ug/L | |
| Benzene | 25 Jan 06 | <0.5 | ug/L | |
| Benzo(a)pyrene | 25 Jan 06 | <0.01 | ug/L | $DL > \frac{1}{2} MAC$ |
| Bromoxynil | 25 Jan 06 | <0.5 | ug/L | |
| Carbaryl | 25 Jan 06 | <5 | ug/L | |
| Carbofuran | 25 Jan 06 | <5 | ug/L | |
| Carbon Tetrachloride | 25 Jan 06 | <0.5 | ug/L | |
| Chlordane (Total) | 25 Jan 06 | <0.012 | ug/L | |
| Chlorpyrifos | 25 Jan 06 | <1 | ug/L | |
| Cyanazine | 25 Jan 06 | <1 | ug/L | |
| Diazinon | 25 Jan 06 | <1 | ug/L | |
| Dicamba | 25 Jan 06 | <1 | ug/L | |
| 1,2-Dichlorobenzene | 25 Jan 06 | <0.5 | ug/L | |
| 1,4-Dichlorobenzene | 25 Jan 06 | <0.5 | ug/L | |
| Dichlorodiphenyltrichloroethane (DDT) + | 25 Jan 06 | <0.006 | ug/L | |
| metabolites | | | C | |
| 1,2-Dichloroethane | 25 Jan 06 | <0.5 | ug/L | |
| 1,1-Dichloroethylene (vinylidene chloride) | 25 Jan 06 | <0.5 | ug/L | |
| Dichloromethane | 25 Jan 06 | <1.0 | ug/L | |
| 2-4 Dichlorophenol | 25 Jan 06 | <0.5 | ug/L | |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 25 Jan 06 | <1 | ug/L | |
| Diclofop-methyl | 25 Jan 06 | <0.9 | ug/L | |
| Dimethoate | 25 Jan 06 | <2.5 | ug/L | |
| Dinoseb | 25 Jan 06 | <1 | ug/L | |
| Diquat | 25 Jan 06 | <7 | ug/L | |
| Diuron | 25 Jan 06 | <10 | ug/L | |
| Glyphosate | 25 Jan 06 | <10 | ug/L | |
| Heptachlor + Heptachlor Epoxide | 25 Jan 06 | <0.012 | ug/L | |
| Lindane (Total) | 25 Jan 06 | <0.006 | ug/L | |
| Malathion | 25 Jan 06 | <5 | ug/L | |
| Methoxychlor | 25 Jan 06 | <0.024 | ug/L | |
| Metolachlor | 25 Jan 06 | <0.5 | ug/L | |
| Metribuzin | 25 Jan 06 | <5 | ug/L | |
| Monochlorobenzene | 25 Jan 06 | <0.5 | ug/L | |
| Paraquat | 25 Jan 06 | <1 | ug/L | |
| Parathion | 25 Jan 06 | <1 | ug/L | |
| Pentachlorophenol | 25 Jan 06 | <0.5 | ug/L | |
| Phorate | 25 Jan 06 | <0.5 | ug/L | |
| Picloram | 25 Jan 06 | <5 | ug/L | |

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| Polychlorinated Biphenyls(PCB) | 25 Jan 06 | <0.05 | ug/L | |
|--|------------------|--------------|-------------|------------------------|
| Prometryne | 25 Jan 06 | <0.25 | ug/L | |
| Simazine | 25 Jan 06 | <1 | ug/L | |
| ТНМ | 25 Jan 06 | 72 | ug/L | |
| (NOTE: show latest annual average) | 28 Mar 06 | 52.1* | ug/L | |
| | 15 May 06 | 74.6 | ug/L | |
| * not included in average | 15 Aug 06 | 63.0 | ug/L | |
| (only the highest value for | <u>14 Nov 06</u> | <u>93.9</u> | <u>ug/L</u> | |
| each quarter is used for the average | Average | 75.9 | ug/L | |
| Temephos | 25 Jan 06 | <10 | ug/L | |
| Terbufos | 25 Jan 06 | < 0.7 | ug/L | $DL > \frac{1}{2} MAC$ |
| Tetrachloroethylene | 25 Jan 06 | <0.5 | ug/L | |
| 2,3,4,6-Tetrachlorophenol | 25 Jan 06 | <0.5 | ug/L | |
| Triallate | 25 Jan 06 | <1 | ug/L | |
| Trichloroethylene | 25 Jan 06 | <0.5 | ug/L | |
| 2,4,6-Trichlorophenol | 25 Jan 06 | <0.5 | ug/L | |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 25 Jan 06 | <1 | ug/L | |
| Trifluralin | 25 Jan 06 | <1 | ug/L | |
| Vinyl Chloride | 25 Jan 06 | <0.2 | ug/L | |

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

| Parameter | Result Value | Unit of | 1/2 MAC | Date of Sample |
|----------------|---------------------------|---------|------------|----------------|
| | | Measure | VALUE | _ |
| Aldicarb | <5 lab detection level | ug/L | 4.5 ug/L | 25 Jan 06 |
| Benzo(a)pyrene | <0.01 lab detection level | ug/L | 0.005 ug/L | 25 Jan 06 |
| Tebufos | <0.7 lab detection level | ug/L | 0.5 ug/L | 25 Jan 06 |

<u>Note!</u> In all three cases above the analysis result value was less that the lab detection limit. However the lab detection limit is above the ½ MAC value.