

Industrial Pollution Prevention Programme - Audit Form

BUSINESS NAME: Kowhai Timber (1990) Ltd

Officer: C. Sturrock **Visit Date:** 7/11/00 **Site ID#:** _____

Business Type; Timber Treatment Facility **Code:** 808 **RAN#:** _____

Street # / Name: 362 Matakana Valley Rd **Suburb:** Matakana

Catchment: Matakana **Code:** #130

TLA RDC **Site File #:** N108-30-0139

Contact: Gary Ryan **Director/GM:** CR

Designation: Owner **24 Hr Phone:** _____

Postal Address: PO Box 170 **Phone:** _____

Matakana **Fax:** _____

TREATMENT PLANT DETAILS

Age of Plant: 45 yrs **Volume Treated:** 3.5 m³ / charge **Days used:** 1/wk

Type of treatment: CCA ☒ LOSP ☒ Boric Dip ☒ Antisapstain ☒

Year started: Early 50's **Method:** Pressure ☒ Dip ☐ Kilns ☒ Disused

Historic PCP ☒ **Other:** Boric - spray tunnel **Time period:** ?

Chemical supplier? Koppers Hickson

Notes: Sawmill established = 1947. for native.

Gary unaware of PCP use.

Current plant is 2nd on the site.

Limestone base fill being used to fill holes etc.

* Don't cut pine anymore. Small volumes. Specialising in

Macrocarpa.

VISIT SUMMARY

Visit Series #: _____

S/W Contam: Act ☐ # _____

Pot ☐ # _____ No ☐

Site Contam: Act ☐ # _____

Invest ☐ # _____ No ☐

ACTION: Polfacts ☐ EOP ☐

Req. Notice ☐ Letter ☐

ENFORCE. Abate Not ☐ EIN ☐

Prosecution ☐ Other _____

Thanks ☐

Time spent: _____ **Costs Recovered:** \$ _____

EPR Initial: _____

EPR Final: _____ **Reported Date:** _____

Environmental Performance Rating:

Initial

Pol ⁿ Risk	A	B	C1	C2	Housekeeping	1	2	3	SCP	A	B	C	#
-----------------------	---	---	----	----	--------------	---	---	---	-----	---	---	---	---

Final

Pol ⁿ Risk	A	B	C1	C2	Housekeeping	1	2	3	SCP	A	B	C	#
-----------------------	---	---	----	----	--------------	---	---	---	-----	---	---	---	---

1. ENVIRONMENTAL MANAGEMENT INFORMATION

How would you describe the company's environmental philosophy?

do best within constraints of old plant. Believes improved significantly since took over.

Does the Company have:

(Get a copy if appropriate)

- an envnmtl policy / mission statement? ☒
- an operation plan/system? ☒
- staff envnmtl education? ☒
- a spill / emergency response plan? ☒

Section 8.4 Code of Practice

Written procedure.

Don't spill

Staff training ☒

Drainage Plan (SW / TW) ☐

Appropriate Kit / Location ☒

- Are employees trained in the Code before they undertake any work? ☒

Section 3.12.1 Code of Practice

Comment: *Only plant operator.*

- Liaison with local Fire Service? ☒ Volunteer. Is there a fire water plan ☒

Section 2.10.5 Code of Practice

Are you aware of any pollution problems in the past? ☐

Details: *Heard end blew off cylinder in past.*

Have any steps been taken to reduce the company's impacts e.g environmental audit? ☐

Details: *Built roof over pad.*

Any Consents ? e.g. s/w, air, waste discharge, bore ☐ Details: _____

Notes: *Mill burnt down 1997. Volunteers.*

2. STORMWATER DISCHARGE

Council Reticulation ☐ Soakage ☐ Piped ☐ Open ☒ Natural Water ☒

Nearest Watercourse?: *Matakana River adjacent.*

- Consent for stormwater discharges from the site? ☒

Section 2.1.1.6 Code of Practice

- Sediment trap at the stormwater outlet(s)? ☒ Details: _____

Section 2.1.2.1 Code of Practice

- Yard sealed ☐ Unsealed ☒

Notes: _____

3. SITE CONTAMINATION / UNDERGROUND STORAGE

Any previous uses of site? Straight mill.

Site owner? Gary Ryan.

Are there any residues of toxic substances such as PCP's on the site? ☒

Section 6.2.5 Code of Practice

Long time worker says antiscapstain spray funnel was used.

• Has a site contamination assessment been carried out (when, by who)? ☒

Proposed Environment Waikato Guideline

Poss. by TPC agent.

• If yes, has the recommendations from this report been acted on satisfactorily (explain)? ☒

Proposed Environment Waikato Guideline

Are there any underground storage tanks on-site currently historically? ☐

Type: Diesel Age: _____

Supplier: Mobil When removed: 1997.

Removed by Mobil - contamination removed. Report?

Is leak detection / ullage monitoring undertaken? ☒

How? _____

Notes: Old owner Hodges. Mrs June Hodges has old records.

Investigation poss. by TPC. No records.

Gary here since 1990.

4. CHEMICALS

Is an inventory available for chemicals stored / used on-site? ☒

• Do you have DG Licence? ☒

Copy available? ☐

CHEMICAL INVENTORY (Table 1)

Material / Chemical	Container	Volume	Numbers	Storage
CCA conc.	D	200 L	2	BCP
MIX	BT	4200 L	1	BCP
working sol ⁿ	BT	12,000 L	1	BCP
Diesel - skid tank	BT	3,500 L	1	B
Oil - eng. / hydraulic	D	200 L	2	

Plant Chemical Delivery / Use

• Chemicals delivered by drum ☒

Tanker ☒

• Delivered into bunded area? ☒

Section 2.2.1.1 Code of Practice

• Bulk tanker deliveries made with transfer hose connection within the bunded area? ☒

Section 2.2.1.1 Code of Practice

• Delivery area bunded? ☒

• MSDS available for the chemicals held on site? ☐

Section 3.2.1 Code of Practice

Notes: _____

5. Treatment Plant Design and Operation

- Any underground pipes carrying treatment chemicals? ☒ integrity checked? ☐

Plant/Storage Area Bunding

NB Bunds for existing plants, as far as practical shall meet all requirements for new plants (2.6.4).

- Does bund hold maximum total volume (100% if covered, 120% if uncovered) of timber preservative and antisapstain solutions in vessels, tanks and pipes within the plant area? ☒

Section 2.6.1 Code of Practice

Volume of bunded area _____

Maximum volume of solution on site ≈ 18,000 L

Percent of solution contained ≈ 50%

- Bund / sump surface sealed with impervious material? ☒ concrete
Environment Waikato Guideline Section 1.3
- Paved areas maintained free of cracks, or deterioration? ☐ _____
Environment Waikato Guideline Section 1.3
- Integrity of bunds and underground storage tanks checked? ☒ _____
Section 2.6.3 Code of Practice
- Washings from bunds to the recycling sump? ☒ _____
Section 2.6.7 Code of Practice
- Can excess rainwater overload unroofed bund? ☒ _____
Section 2.1.1.2 Code of Practice
- Locking devices on tanks or plant locked when not operating? ☒ _____
Section 2.7.2 Code of Practice

Notes: _____

Pressure Plant - Design and Operation

- Contaminated discharges from vacuum pumps collected and reused? ☒

Section 4.2.6.2 Code of Practice

Open Tank / Dip Bath - Design and Operation

- Dip tank bunded? ☐ Excess solution / drips recycled? ☐ ☒

Section 4.6.1.1 Code of Practice

Spray Tunnel - Design and Operation

- Surplus treatment solution recycled ☐

Section 4.6.2.2 Code of Practice

Drip Pad Design and Operation

- Drip pad roofed? ☒ bunded? ☒ Area of drip pad? 10 x 12
2.2.2.1 Code of Practice
- Freshly treated timber held on the drip pad for the required length of time? ☒
Section 2.2.2.1 and 2.2.2.2 Code of Practice
- Allowances made for cold conditions? ☐ _____
Section 2.2.2.1 and 2.2.2.2 Code of Practice
- Drip pad sufficiently large to ensure timber need not be removed while dripping? ☒
Section 2.2.2.3 Code of Practice
- Drip pad sealed to Council requirements? ☒
Section 2.2.2.4 Code of Practice
- Forklift kept on pad or washed down before leaving the pad or doesn't contact pad? ☒
Section 2.2.2.5 Code of Practice
- Pad operated and maintained to minimise transfer of chemicals / dust to yard? ☒

Notes: Plan to bund pad.
Timber stored in vessel overnight.

6. Wastes Section 8 Code of Practice

Wastewater disposal?

Sewer ☒ On-site disposal ☒ x2 D/c consent ☒

Sludge

- How are sludges from pump filters, sumps and drip pads disposed of? Hicksons.
- What is the main source of these sludges? sump.
- Any sludge disposed of on-site? ☒
- Silt from storm water sumps and contaminants captured by filters and scrubbers disposed of as recommended? ☒
- How are sludges stored on-site? Drum in bunded area.

Section 8.3.2 Code of Practice

Metal or Plastic Drums

- How are used drums disposed of? Re used.
- Drums and containers stored in bunded area draining to a collection sump? ☒

Section 8.1.1 Code of Practice

Plastic or Paper bags

- How are paper bags, and plastic products disposed of? X

Section 8.2.1 Code of Practice

Off-Cuts / Surplus Chemicals

- Any off-cuts or similar waste of treated timber produced on site? no vol. ☒
- How are they stored? _____
- How are these materials disposed of? _____

Section 8.5 Code of Practice

- Burnt on site ☐
- Sent to a landfill ☐
- Other _____

- Surplus treatment chemical disposal? N/A. ☒

Section 8.5.5 Code of Practice

Kiln and Steamer Residues

- Disposal of gaseous, aqueous and solid waste from steaming? Not working. May. Electricity too expensive. D/c to ground.

Section 8.6.1 and 3.3.1 Code of Practice

Solid Wastes

- Any problems with waste production / disposal? (RENEW?) ☐
- Details: _____

WASTE INVENTORY (Table 2)

Waste type/source	Volume	Numbers	Storage*	Disposal / Recycled/Reused	Contractor

Disposal: TS Drains to Trade Sewer WD Waste disposal co.

Notes: _____

5. OBSERVATIONS / FINDINGS

Area: _____ Contam. ☐ S/W or Residual Act / Pot / Invest
Problem: _____

Comments / discussion: _____

Area: _____ Contam. ☐ S/W or Residual Act / Pot / Invest
Problem: _____

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Comments / discussion: _____

Notes: _____

Area: _____	Contam. ☐	S/W or Residual	Act / Pot / Invest
Problem: _____			
Comments / discussion: _____			

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Area: _____	Contam. ☐	S/W or Residual	Act / Pot / Invest
Problem: _____			
Comments / discussion: _____			

Notes: _____

SUMMARY OF ARC COSTS INCURRED...

Date	Description	Recover ✓ / ✗	Time / #	Hrs	Rate	Total
	Officer					
	Vehicle				\$0.70/km	
	Photos				\$2 each	
	Cleanup					
	Analysis					
Total: \$						

FILE NOTE

Subject: Kowhai Timber audit

Consent / file # : _____

Job / PI # : _____

Officer : CSturrock

Time taken : _____

Date : 7/11/00

Time : 1400

Kms : _____

Audit with Gary Ryan.

Co. specialises in *Mareuocarpa* these days. No treating of this.

Small vols of pine treated for local market, mainly privately felled trees.

Talking to long time worker discovered used to be a spray tunnel on-site in vicinity of mill. Thinks boric & antiseptain chemicals used (poss early 80's). Sticky chemical.

Located spray tunnel adjacent to current sawmill but area been concreted over & filled. Unable to sample. Mill burnt down in 1999.

Treatment plant been roofed since 1996 visit. Still plans to build pad to increase blurring vol. of plant.

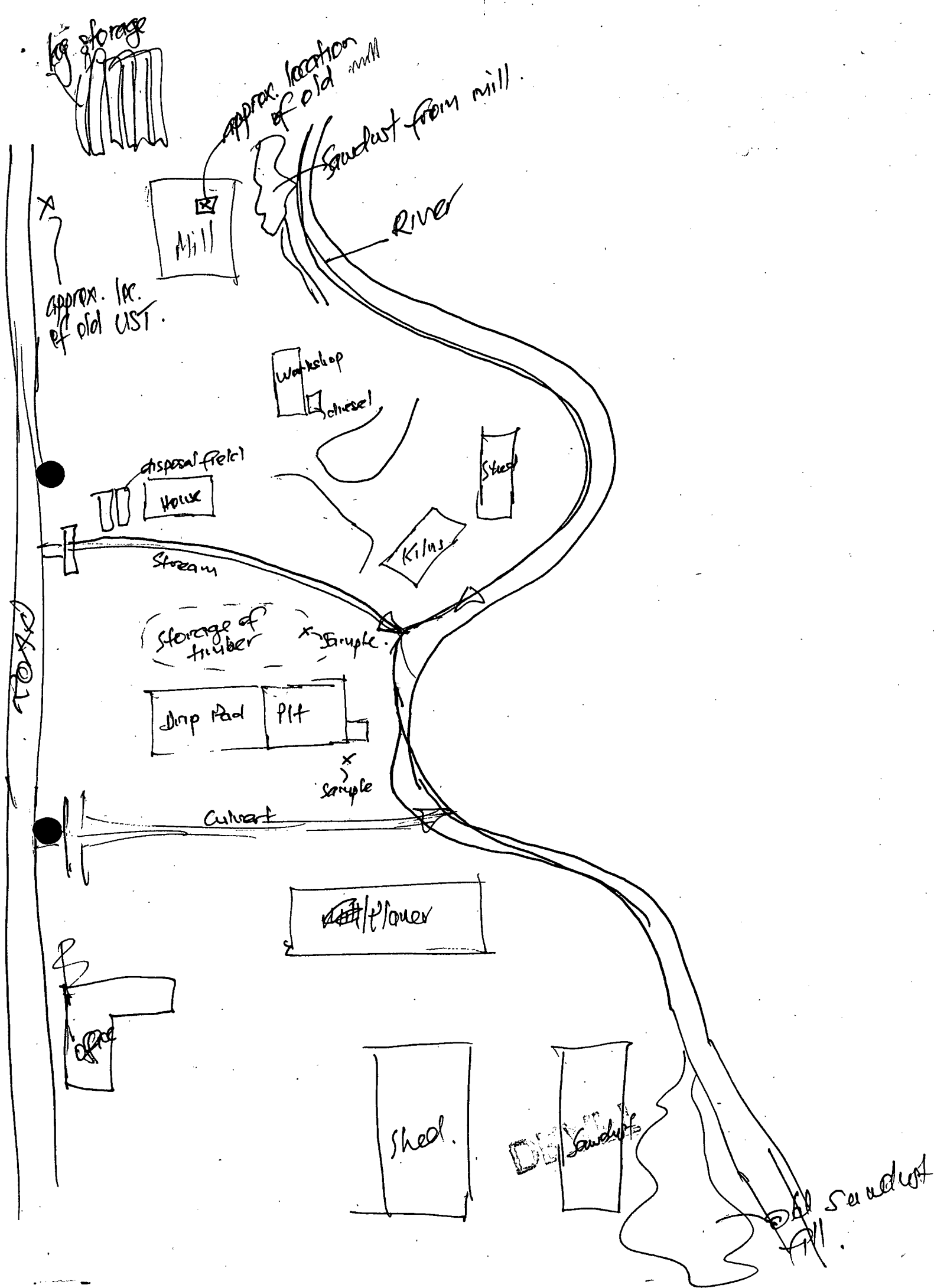
Sampled from storage area & also $\approx$ southeast cor of plant where found grey/green deposit.

No longer sawdust dumped on streambank. Collects & sells on.

Has had new septic tank + disposal field installed since 1996 for small house.

Diesel UST removed in 1997 by Mobil but no report available. Report produced apparently.





DRAFT

Entering Pollution Incidents in the Database

ARC ENVIRONMENT - Pollution Sample Field/Laboratory Sheet

SURVEY OR LOCATION ID: <u>Kowhai Timber</u>	
Date of Sample: <u>7/11/00</u>	Number of Samples: <u>2</u>
Sampled By: <u>C Sturrock</u>	Order Number: <u>FO16971</u>
Laboratory Name: <u>Watercare</u>	Date Delivered to Laboratory: <u>7/12/00</u>
Laboratory Id/Batch No:	ROUTINE <u>URGENT</u> (Date Required):

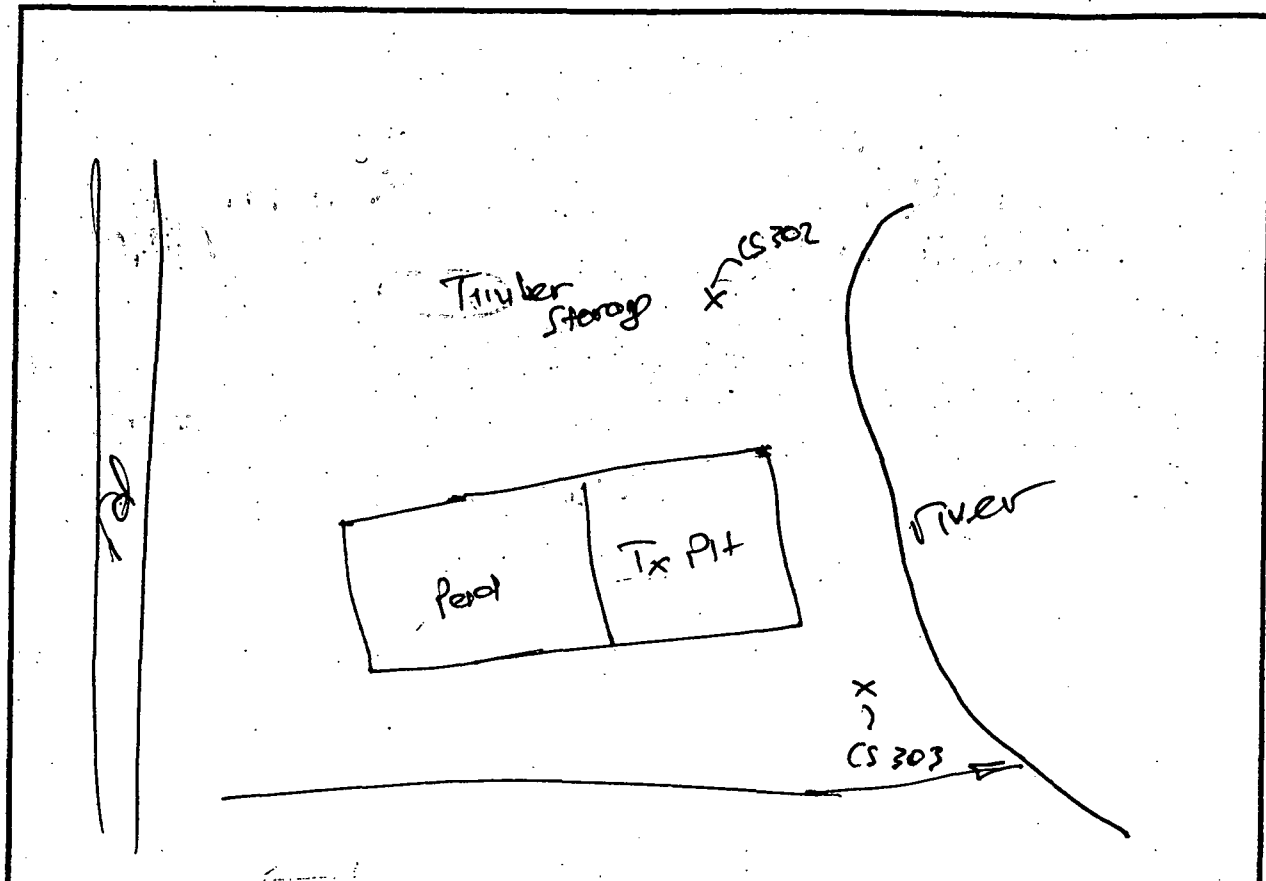
FIELD OBSERVATIONS	Weather:			
BOTTLE NUMBER				
SAMPLE NUMBER	<u>CS00/302</u>	<u>CS00/303</u>		
SAMPLE DESCRIPTION	<u>Storage Yard</u>	<u>Beside Tx Pit</u>		
Sampling Time				
Flow (estimate)				
Sample Depth				
Appearance				
Odour				
Temperature (°C)				
pH				
Conductivity				
Other:				

ANALYSIS REQUIREMENTS:	✓			
Presumptive Coliforms mpr/100ml				
Faecal Coliforms mpr/100ml				
Faecal Coliforms (mf) cfu/100ml				
Enterococci (mf) cfu/100ml				
pH				
Conductivity @ 25°C mS/m				
Non-Filtrable Residue mg/l				
Dissolved Oxygen mg/l O				
BOD mg/l O				
Nitrite Nitrogen mg/l N				
Nitrate Nitrogen mg/l N				
Ammonia Nitrogen (NH ₃ +NH ₄) mg/l N				
Total Phosphorus mg/l P				
Soluble Reactive Phosphorus mg/l P				
TKN				
Oil and Grease				
<u>Copper</u>	✓			
<u>Chromium</u>	✓			
<u>Arsenic</u>	✓			

ALL ANALYTICAL RESULTS TO: The Secretary
Resource Quality
Auckland Regional Council
Private Bag 92 012
Newton

Phone: 366 2000 ext: 8058
Fax: 366 2155

SITE DIAGRAM



Notes:

CHAIN OF CUSTODY RECORD

ORIGIN	
Samples Taken by:	Signature:
Date Samples Taken:	Time Samples Taken:
STORAGE	
Stored at:	
Date/Time In:	Date/Time Out:
TRANSPORTED TO LABORATORY	
Transported By:	Signature:
DESTINATION	
Laboratory:	
Received By:	Signature:
Date of Receipt:	Time of Receipt:

Page: 1

Distribution List

Copy to 1: Julie Pickering

2: File

ARC Reception

Watercare Services Ltd

Laboratory Services Section

Wastewater Treatment Plant

Island Road

Mangere, Auckland, New Zealand

Phone: (09) 2551188

Facsimile: (09) 2751550

AUCKLAND REGIONAL COUNCIL

RESOURCE QUALITY

PRIVATE BAG 92-012

AUCKLAND 1

ATTENTION: JULIE PICKERING

Batch Number: 00/16009

Urban Pollution Complaints Sampling/No

Received.....: 07/12/00 11:16

Sample No	Date	Description	Testcode Identification	Units
01	07/11/00	CS00/302 Kowhai Storage Yard	As-Drywt Arsenic total as dry weight	mg/kg drywt
02	07/11/00	CS00/303 Kowhai Beside Tx Pit	Cr-Drywt Chromium total as dry weight	mg/kg drywt
			Cu-Drywt Copper total as dry weight	mg/kg drywt
			Digest7 Microwave-Assisted Digestion:APHA 3030K	
			Met-Prep Sample Preparation for Metal Analysis	

Sample No.	01	02
As-Drywt	441.	3852.
Cr-Drywt	751.	18054.
Cu-Drywt	364.	14443.
Digest7	Yes	Yes
Met-Prep	Yes	Yes

Sampling/Yes:= As per Laboratory Services sampling manual.

Sampling/No := Results are reported on an as received basis.

This report may not be reproduced except in full.

Methodology: 19th-1995, 20th-1998 editions APHA AWWA unless specified.

Section Head: Date: 04/01/01

----- END OF REPORT : 1 PAGE -----



Auckland **Regional** Council

Vodafone House
21 Pitt Street
Private Bag 92 012
Auckland
New Zealand

22 August, 2000

DX CP 28 008 Pitt St
tel 64 9 379 4420
fax 64 9 366 2155

The General Manager
Kowhai Timber (1990) Ltd
PO Box 170
Matakana

File Ref: P270-03-02

Attention: Gary Ryan

FILE

Dear Sir

Regional Council Investigations into Contamination at Timber Treatment Facilities

The Auckland Regional Council's Pollution Control Team is currently undertaking a series of visits to industry types within the Auckland Region which have been identified as having a high potential to cause land or water pollution. The timber treatment industry has been identified as one of these industry types warranting priority attention by our Industrial Pollution Prevention Programme.

The specific attributes of these sites that are of particular concern include:

1. They have been shown by ARC staff studies to display a high proportion of environmental non compliance.
2. Timber treatment sites store on-site large volumes of hazardous chemicals and they are operated with varying degrees of efficiency and diligence, and for this reason they are listed in the Australian and New Zealand Environment and Conservation Council's ("ANZECC") Guideline for the Assessment and Management of Contaminated Sites as being a priority land use;
3. Timber treatment sites have the potential to give rise to major chemical spills. Spills from timber treatment sites in the past have resulted in considerable resources being utilised in terms of containment, remediation of contaminated waterways and land, and in fixing the problem leading to the spill, both on behalf of the Company responsible and Regional Council staff.

Two series of investigations into timber treatment facilities in the Auckland Region have been undertaken over the last 10 years.

The first investigation was carried out in 1993 and included a preliminary survey of copper, chrome and arsenic (CCA) contamination of the known treatment plants in the Region. The survey found that 13 of the 15 sites examined were contaminated by CCA and would require further examination. At that time it was envisaged that the Ministry for the Environment's requirement for all timber treatment plants to comply with the environmental provisions promulgated in the Code of Practice for the Safe Use of Timber Preservatives and Antisapstain Chemicals within three years, would greatly assist in preventing future contamination.

In 1996 a more detailed analysis of the CCA contamination problem was undertaken. This study investigated the environmental fate and transport of chemicals associated with CCA timber preservative at both treatment facilities and timber storage sites. Some initial investigations into contamination by pentachlorophenol (PCP) at some sites was also undertaken. The major findings from this work included:

1. That there is a significant problem with contamination of land and surface water runoff by copper, chromium and arsenic (CCA) at timber treatment sites. Contamination by other treatment chemicals, such as PCP and boric acid, is also likely at some sites.
2. The Code of Practice for the safe use of Timber Preservatives and Antisapstain Chemicals, was generally not being complied with and even if it was, it did not prevent contamination by CCA.
3. Treated timber that is stored uncovered and exposed to the elements is causing contamination both on and off-site.
4. A serious CCA contamination problem potentially exists at treated timber storage facilities.
5. Discharges of CCA contaminated stormwater from treatment and storage facilities have the potential to cause serious environmental effects.

This letter is to inform you that we are intending to undertake a further programme of investigations into timber treatment facilities in the region with the specific aims being to:

1. complete the work started in 1996 by auditing all the treatment facilities for general compliance with the Resource Management Act 1991 (RMA) with regard to actual and potential point sources of pollution, and for compliance with the Code of Practice,
2. ensure individual facilities come into compliance with the RMA and the Code and encourage those treating with CCA to look to more modern treatment techniques to ensure better fixation,
3. identify off-site effects of timber treatment facilities on watercourses.
4. initiate investigations by treatment facilities, where required, into the degree and extent of ground and or groundwater contamination on these sites,
5. assess possible remedial steps available to address both on and off-site contamination, and
6. identify treatment sites requiring resource consents to discharge contaminants to land and / or water.

To that end please be aware that Council staff will be visiting your premises sometime before the end of October 2000. An appointment will be made to meet with a relevant staff member and undertake a full inspection of your facility closer to the intended visit date.

To help your company prepare for this visit please find enclosed a copy of our latest pollution prevention tool - **The Environmental Operations Plan (EOP)**. This is a comprehensive 'do-it-yourself' guide to identifying and addressing environmental issues associated with your industrial activities and will help you to comply with the Resource Management Act 1991. It covers all the key problems that Regional Council staff see on industrial sites every day. It requires no specialist knowledge to use - just a knowledge of your own business.

We encourage you to use this document in conjunction with the Code of Practice as soon as possible as this will make our visit much quicker and easier and may save your company significant amounts of money.

Please contact the undersigned on 366-2000 ext 8543 if you require any assistance or advice with regard to this or related matters.

Thank you for your co-operation. We look forward to meeting you soon.

Yours faithfully



Campbell Sturrock
Pollution Control Officer
Land & Water Quality

**VIEW DETAILS**
CLICK ON ANY TAB TO ACCESS**Company:** AK/463694 KOWHAI TIMBER (1990) LIMITED**Status:** REGISTERED**Incorporated:** 21-FEB-1990**Companies Office File Location:** Auckland**Registered Office Address**

59 Richardson Road

Mt Albert

AUCKLAND

Directors

(up to a maximum of two will be shown, a full search may provide further names)

RYAN , Gary George



Auckland
Regional
Council

POLLUTION COMPLAINT FORM

6432

INFO RECEIVED HOW?

Hotline ☐

ARC# ☐

Survey ☐

Reported ☐

Enviroline ☒

Other ☐

Received DATE: 24-09-97 TIME: 0910

Observed DATE: _____ TIME: _____

Actioned DATE: _____ TIME: _____

WISH TO REMAIN ANONYMOUS. YN

NAME: Anon

PHONE: 094227835

ADDRESS: _____

REPORT SUMMARY

*PC# 97/855

*Ct 130

*Received by SEW Inter.

*Actioned by CS

FILE # N108-30-0139

CODE 0/-

Passed to _____

Reported to E.M.S. 02 FEB 1999

Contaminated Site
Act ☒ Pot. No

COMPLAINT: timber mill - treatment plant - waste going down river - pressurised cylinder - mist comes out and drifts around (Matakana River)

LOCATION: Warkworth - Kowhai Timber Treatment
at Matakana - Wanganui(?) Valley Road

SUMMARY REPORT

SOURCE: _____ INDUSTRY CODE: _____

CONTACT: _____ POSITION: _____

ADDRESS: _____ SITE: _____

POSTAL: _____

PHONE/FAX: _____

PC PROBLEM: _____

OTHER PROBLEMS: _____

PC SOLUTION: _____

OTHERS: _____

PROGRESS SUMMARY

Attended ☐

Photos ☐

Samples ☐

Traced ☐

No Further Action ☐

Samples Analysed ☐

Polfact sent ☐

Letter ☐

Abatement Notice ☐

EIN ☐

Other _____

Follow-up Visit ☐

Resolved ☒

Compl. Advised ☐

Cost Rec. \$ _____

NOTES: caller has developed a strange rash - doctors don't know what it is but he seems to think it could be related to the mist coming from the plant
- caller has been living there for a year now - said the whole plant looks a mess

* 1315 long complainant and explained site visit last year where problems raised & addressed.

Suggested Nip ROC re mist/vapour. CS thinks it's exhaust from motor.

See over for Photo/Diagrams/other notes/diagrams/ Attach correspondence /results etc.

Notes continued

Complainant says steam goes green
occasionally. CS said ring ARC
asap & we'll investigate.

Diagram/Photo

