



DOW CHEMICAL U.S.A.

TEXAS DIVISION
FREEPORT, TEXAS 77541

August 1, 1974

C. Barras	Oyster Creek
D. Bauer	Western
D. R. Beaman	Midland
G. W. Daigre	Louisiana
E. P. Edwards	Louisiana
B. Hillary	Sarnia
I. C. Jones	Texas
→ J. D. Laman	Texas
R. J. Moolemaar	Midland
R. J. Moore	Western
J. Posnick	Fort Saskatchewan
G. E. Rademacher	Texas
M. Seimens	Oyster Creek
F. W. Spillers	Texas
J. L. Teal	Midland
R. M. Webb	Oyster Creek
G. R. Wessels	Texas
R. Young	Sarnia

RECEIVED

J. D. LAMAN

STD433738

ASBESTOS

U.S. Area management has requested that the Texas Chlor-Alkali Research Department take the lead role in analyzing and developing solutions to the asbestos-water, and product contamination problem resulting from the production of chlorine.

This problem can only be solved through the combined effort of all groups involved in the production and distribution of products and waste containing asbestos. At this time the required analysis of asbestos in water or other liquids can be performed only by the Microscopy Lab in Midland. With this limited analysis capability, it is very important that our samples and data be processed very carefully. There must be at least one person at each location to assist in the development of our asbestos situation and solutions to any problems that may arrive. If the person to whom this is addressed is not to assist in the study in his area, please forward this information to the proper person.

The asbestos study will be conducted in three phases as follows:

Phase 1

This phase will be concerned primarily with determining to what extent asbestos is leaving Dow's facilities. First priority will be given to the determining if asbestos from any of Dow's locations is entering any drinking water or food.

AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY



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The following samples should be carefully taken at once, clearly labeled, and sent to the Microscopy Lab in Midland. Also fill out the attached form and send it along with the samples.

1. All water leaving Dow's plant limits.
2. Water from rivers, creeks, etc., upstream and downstream from any point that Dow waste water enters.
3. All Dow products which may have picked up asbestos from cell effluent or other asbestos sources and which will be used in food or food processing.
4. Any other samples you may consider pertinent.

After forwarding the samples to Midland, send a copy of the sample description on the attached form to:

O. C. Taylor
Chlor-Alkali Research
B-2224 Building
Texas Division

Along with the sample form, also include a plant map or block plan showing the sample source. Identify each source by number and name (see attached example). As discussed in the previous Telex, a priority will be assigned to all samples as they are received. Analysis results should be disseminated to persons sending in the sample, O. C. Taylor, and other persons requesting such results.

Phase 2

This phase will be concerned primarily with determining the source and extent to which asbestos enters waste water and products from the following sources:

1. Chlorine or Chlor-Alkali Plants
2. Caustic Plants
3. Diaphragm Facilities
4. Cathode Cleaning Facilities
5. Any other source you consider pertinent

For the present time process samples from these sources by the same procedure described in Phase 1.

In the near future an additional analysis procedure may be developed by the Texas Central Lab which will be used to screen out samples containing very high concentrations of asbestos.

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C. Barras, et al

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Phase 3

This phase will be concerned with developing procedures or processes to eliminate or remove excessive asbestos from all of our waste and products leaving Dow's facilities. Phase 3 may proceed simultaneously with Phase 2 to whatever extent is necessary.



O. C. Taylor
Chlor-Alkali Research
B-2224
Tele. 713/238-3274

bwc

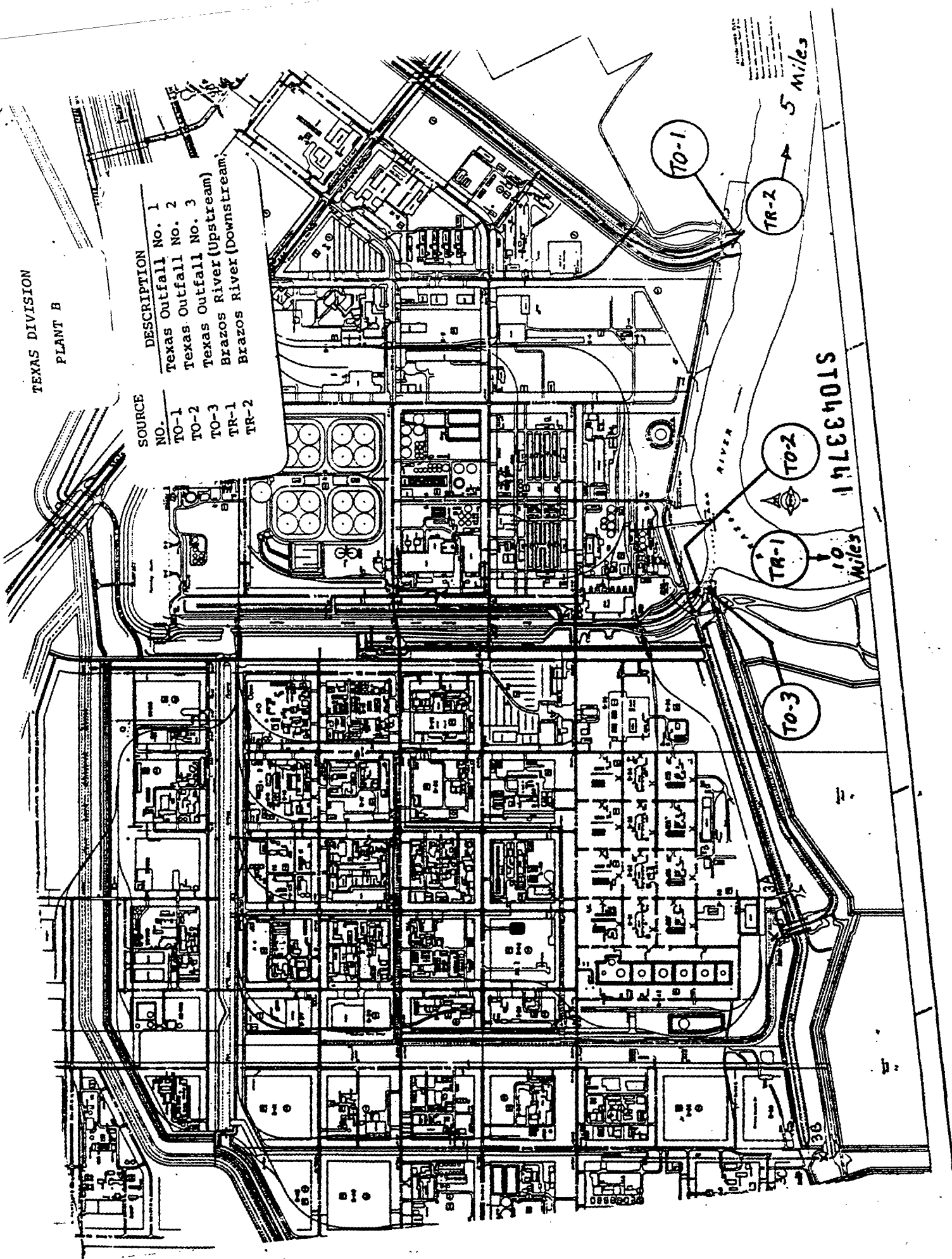
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TEXAS DIVISION
PLANT B

DESCRIPTION
Texas Outfall No. 1
Texas Outfall No. 2
Texas Outfall No. 3
Texas River (Upstream)
Brazos River (Downstream)

SOURCE
NO.
TO-1
TO-2
TO-3
TR-1
TR-2



Example

Copies to: D. Beaman - 574
Midland
C. Taylor - B-272
Texas

ASBESTOS SURVEY

LOCATION: DIVISION Texas

PLANT OR BLOCK NO. Plant B, ch 4

DATE	SOURCE NO.	SAMPLE NO. *	SAMPLE NAME	APP. COMPOSITION	Possible Fibers	Positively Identified Fibers	Positive + Possible	Mass - $\mu\text{g/L}$	Pos. + possible	Mean Length Microns	Mean Aspect Ratio	COMMENTS
25 July 74	TO-1	T-B-1	Water	Water								
	TO-2	T-B-2	"	"								
	TO-3	T-B-3	"	"								
	TR-1	T-B-4	Brook River	"								
	TR-2	T-B-5	"	"								
29 July 74	1	T-C/4-1	CELLER	10% NaOH								

*Sample No. Nomenclature (Location) - (Plant) - (NO.)

Location: OCD - Oyster Creek Div.; LA. - Louisiana; T - Texas; W - Western
M - Midland; S - Sarnia; FS - Ft. Saskatchewan.

Plant: Cl - Chlorine Plant (e.g. Cl4 for Chlorine 4); CA - Chlor Alkali Plant; Na - Caustic Plant; LO - Location Outfall

No.: Any number assigned by person taking sample (e.g. T-CAL-4 - Texas Chlor-Alkali I, Sample 4)

27188401S

ASBESTOS SURVEY

PLANT OR BLOCK NO.

[illegible]

Plant: Cl - Chlorine Plant (e.g. Cl4 for Chlorine 4); CA - Chlor Alkali Plant; Na - Caustic Plant; LO - Location Outfall

No.: Any number assigned by person taking sample (e.g. T-CAL-4 - Texas Chlor-Alkali I, Sample 4)

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