

AR226-1671

Andrew S Hartten

11/01/2002 08:55 AM

To: Vic E Kleinfelter/AE/DuPont@DuPont
cc: Seichi Tanaka/PO/DuPont@DuPont, Kazuaki Suzuki/PO/DuPont@DuPont, Hidetaka Hiromatsu/PO/DuPont@DuPont, Katsunosuke Kitagawa/PO/DuPont@DuPont, George H Senkler_Jr/AE/DuPont@DuPont, David M Rurak/AE/DuPont@DuPont, Shino Shima/PO/DuPont@DuPont, Linda E Chieffi/AE/DuPont@DuPont, Patricia D Buoncuore/AE/DuPont@DuPont, Susan L Skrotsky/AE/DuPont@DuPont
Subject: Re: CONFIRMING CONF. CALL - SHIMIZU GROUNDWATER & SURFACE WATER INVESTIGATION

The powerpoint file below presents a summary of the groundwater investigation. Everyone should refer to this summary during the conference call. Thank you.



shimsumfin.ppt

Andrew

Vic E Kleinfelter

Vic E Kleinfelter

11/01/2002 02:02 PM

Sent by: Susan L Skrotsky

To: Seichi Tanaka/PO/DuPont@DuPont, Kazuaki Suzuki/PO/DuPont@DuPont, Hidetaka Hiromatsu/PO/DuPont@DuPont, Katsunosuke Kitagawa/PO/DuPont@DuPont, George H Senkler_Jr/AE/DuPont@DuPont, David M Rurak/AE/DuPont@DuPont, Andrew S Hartten/AE/DuPont@DuPont
cc: Shino Shima/PO/DuPont@DuPont, Linda E Chieffi/AE/DuPont@DuPont, Patricia D Buoncuore/AE/DuPont@DuPont, Susan L Skrotsky/AE/DuPont@DuPont
Subject: CONFIRMING CONF. CALL - SHIMIZU GROUNDWATER & SURFACE WATER INVESTIGATION

This is to confirm a conference call on **Wednesday, November 6, from 6:00-8:00 p.m. Wilmington time**; **Thursday, November 7, 8:00-10:00 a.m. Tokyo time** to discuss the above subject. We would prefer to limit the attendees of this conference call to those people listed on this e-mail distribution.

Please use the following dial-in number:

Dial-in Number: 510-637-7001
Participant Code: 682656

Vic

GHS006671
EID723108

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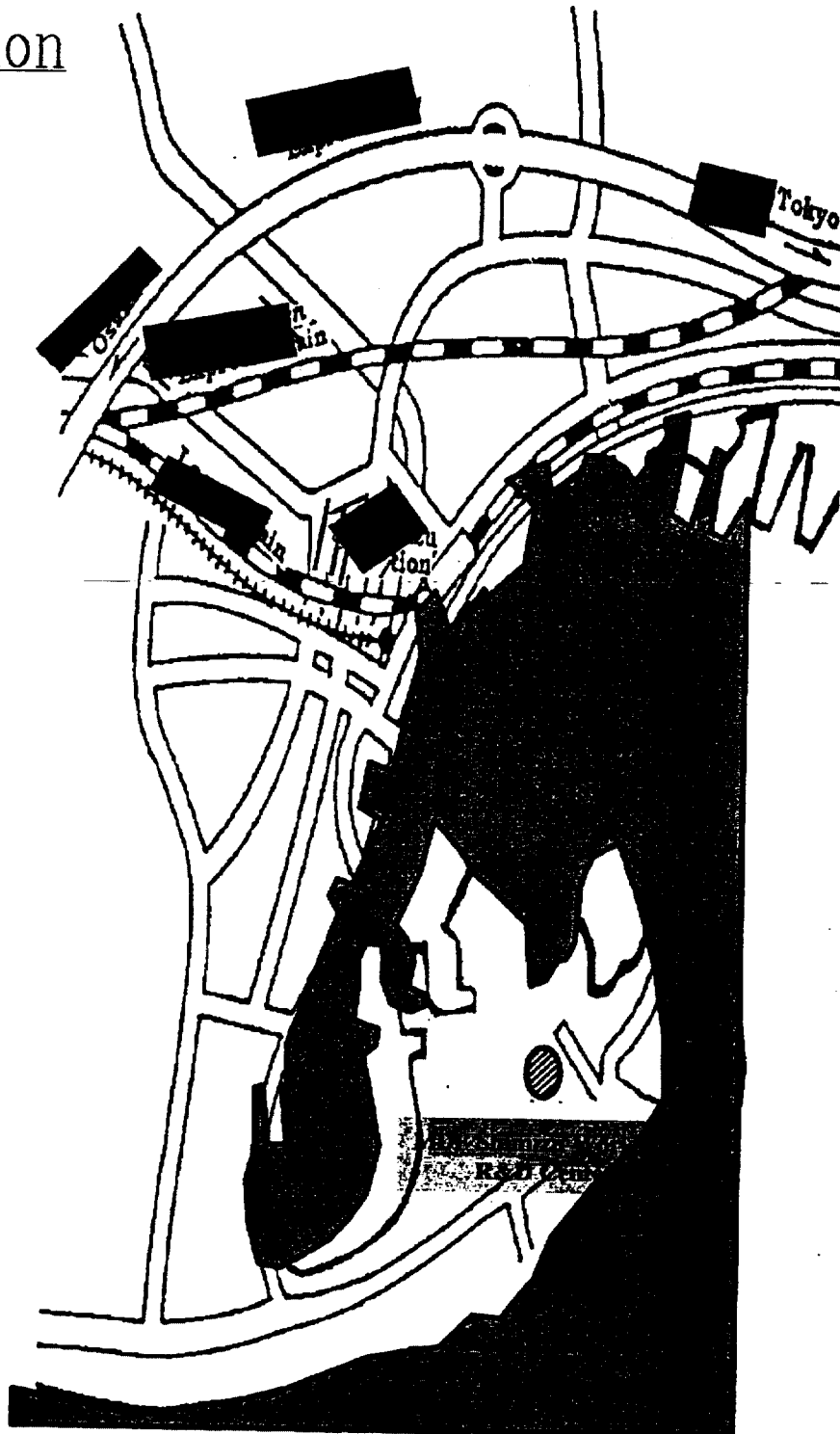
**Shimizu Works
Groundwater Sampling
Results
Aug. 5-7, 2002**

**GHS006672
EID723109**

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Shimizu City

Location
of
MDF



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EID723110

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Scope of Work Summary

- **Sampling Points**

- 8 operating remediation system pumping wells
 - » Wells 1-8 (other shallow wells at site were dry)
- site WWTP effluent going to public trench
 - » shown on map and results table as Well 9
- surface water trench outside site along Municipal Rd.
 - » shown on map and results table as Well 10

- **Analytical Program**

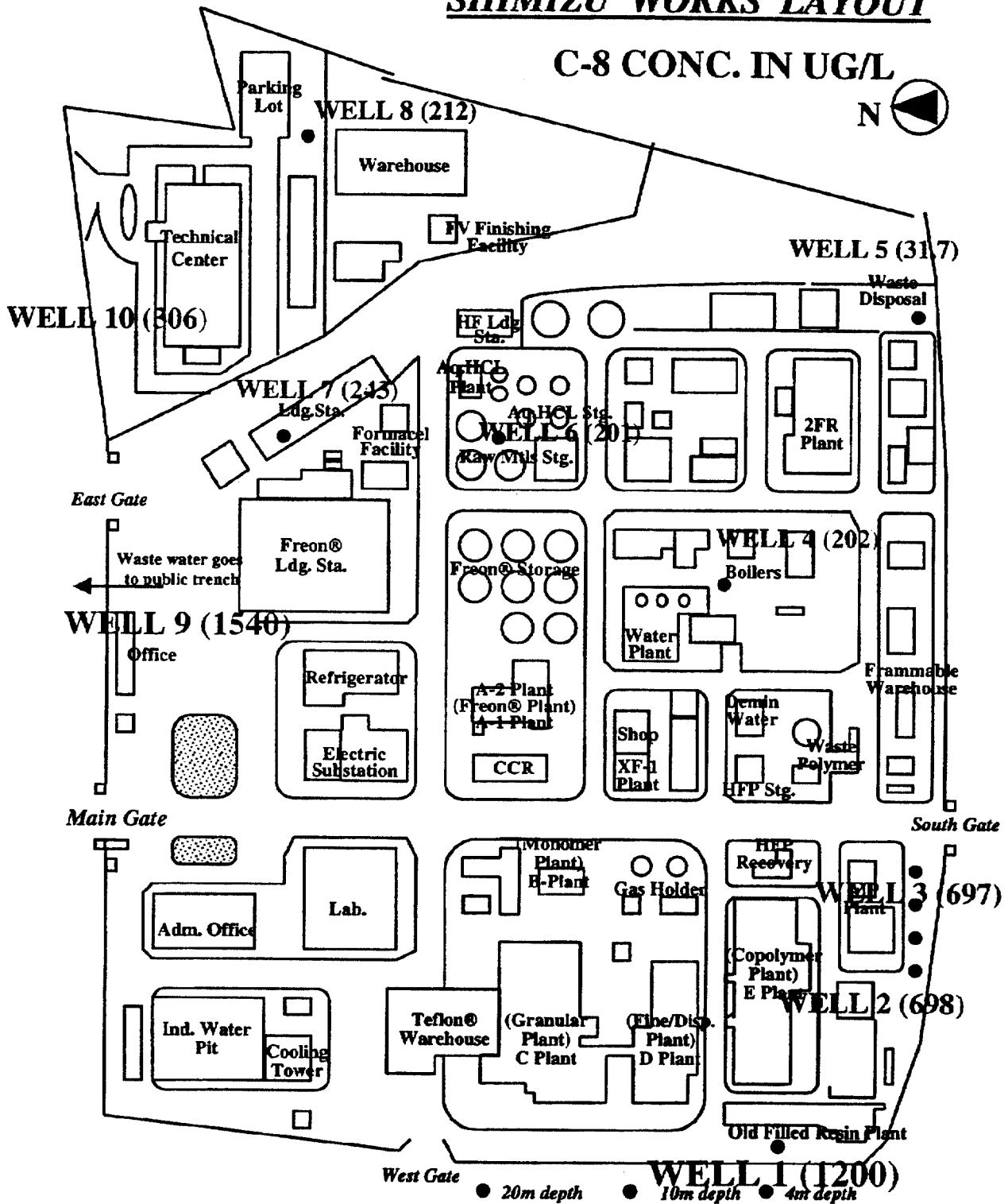
- FC-143 (by Exygen Labs, State Collage, PA)
- Priority Pollutant VOCs/SVOCs/Metals (Lancaster Labs)

OBSERVATIONS

- **Highest individual C-8 concentration detected in Well 9 (i.e., wastewater leaving site)**
- **Detected 306 ppb in Well 10, which is off-site surface water trench bordering Municipal Rd.**
- **Southwest site area shows highest overall C-8 groundwater concentrations (i.e., Well 1 at 1200 ppb)**
- **Other constituents detected (i.e., chlorocarbons) where consistent with historical information**
- **Active pumping likely minimizes off-site groundwater migration**

SHIMIZU WORKS LAYOUT

C-8 CONC. IN UG/L



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SHIMIZU WORKS GROUNDWATER SAMPLING-AUG. 5-7, 2002

ANALYTICAL RESULTS SUMMARY (IN UG/L)

Sample ID	WELL1	WELL2	WELL3	WELL4	WELL5	WELL6	WELL7	WELL8	WELL9	WELL10
Date	8/6-7/2002	8/6-7/2002	8/6-7/2002	8/6-7/2002	8/6-7/2002	8/6-7/2002	8/6-7/2002	8/6-7/2002	08/06/2002	08/06/2002
Duplicate #	1	1	1	1	1	1	1	1	1	1
Analyte										
1,1,1-TRICHLOROETHANE	ND(4) U	ND(2) U	ND(2) U	ND(0.8) U	ND(0.8) U	46	ND(0.8) U	0.9 J		
1,1-DICHLOROETHANE	ND(5) U	ND(3) U	ND(3) U	ND(1) U	ND(1) U	41	ND(1) U	1 J		
1,1-DICHLOROETHENE	ND(4) U	5 J	9 J	ND(0.8) U	5 J	23	2 J	3 J		
BENZENE	ND(3) U	7 J	13	0.6 J	ND(0.5) U	ND(0.5) U	ND(0.5) U	ND(0.5) U		
CARBON TETRACHLORIDE	ND(5) U	ND(3) U	ND(3) U	ND(1) U	8	57	10	220		
CHLOROETHANE	ND(5) U	ND(3) U	ND(3) U	ND(1) U	ND(1) U	6	ND(1) U	ND(1) U		
CHLOROFORM	ND(4) U	6 J	13 J	44	49	580	280	1100		
CIS-1,2-DICHLOROETHENE	1300	2500	2100	140	11	4 J	86	340		
ETHYLBENZENE	ND(4) U	5 J	ND(2) U	ND(0.8) U	ND(0.8) U	ND(0.8) U	ND(0.8) U	ND(0.8) U		
METHYLENE CHLORIDE	ND(10) U	ND(5) U	ND(5) U	ND(2) U	ND(2) U	ND(2) U	ND(2) U	10		
TETRACHLOROETHENE	5700	250	480	56	53	9	680	7000		
TOLUENE	ND(4) U	ND(2) U	ND(2) U	ND(0.7) U	ND(0.7) U	ND(0.7) U	ND(0.7) U	0.8 J		
TRANS-1,2-DICHLOROETHENE	6 J	27	17	ND(0.8) U	ND(0.8) U	ND(0.8) U	2 J	5 J		
TRICHLOROETHENE	480	97	210	89	1 J	180	220	530		
TRICHLOROFUOROMETHANE	ND(10) U	8 J	18	35	310	270	180	180		
VINYL CHLORIDE	44	9 J	80	10	4 J	2 J	5 J	94		
XYLENES (TOTAL)	ND(4) U	5 J	ND(2) U	ND(0.8) U	ND(0.8) U	ND(0.8) U	ND(0.8) U	ND(0.8) U		
ANTIMONY	ND(9.9) U	ND(9.9) U	10.4 J	ND(9.9) U	ND(9.9) U	ND(9.9) U	ND(9.9) U	ND(9.9) U		
ARSENIC	5.8 J	27.3	4.9 J	ND(4.9) U	ND(4.9) U	ND(4.9) U	ND(4.9) U	5.5 J		
COPPER	ND(2.6) U	ND(2.6) U	ND(2.6) U	ND(2.6) U	ND(2.6) U	ND(2.6) U	4.4	4.5		
NICKEL	ND(1.9) U	ND(1.9) U	ND(1.9) U	ND(1.9) U	3.3 J	ND(1.9) U	ND(1.9) U	2.9 J		
ZINC	9.5 J	ND(4.9) U	12.6 J	ND(4.9) U	66.5	7.5 J	58.1	41.8		
FC-143	1200	688	697	202	31.7	201	243	212	1540	306

Units = ug/L
Total Metals

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Waste fluid ditch , Process drainage and Well for G.W. treatment of SHIMIZU WROKS

C-8 Contain drainage

Well for G.W.treatment(10m.) 20 m³/Day

Contaminated (PCE/CTC/etc.) area

Well for G.W.treatment(4 m) 20 m³/Day

Well for Process water (20 m) 960 m³/Day

Aeration Tank

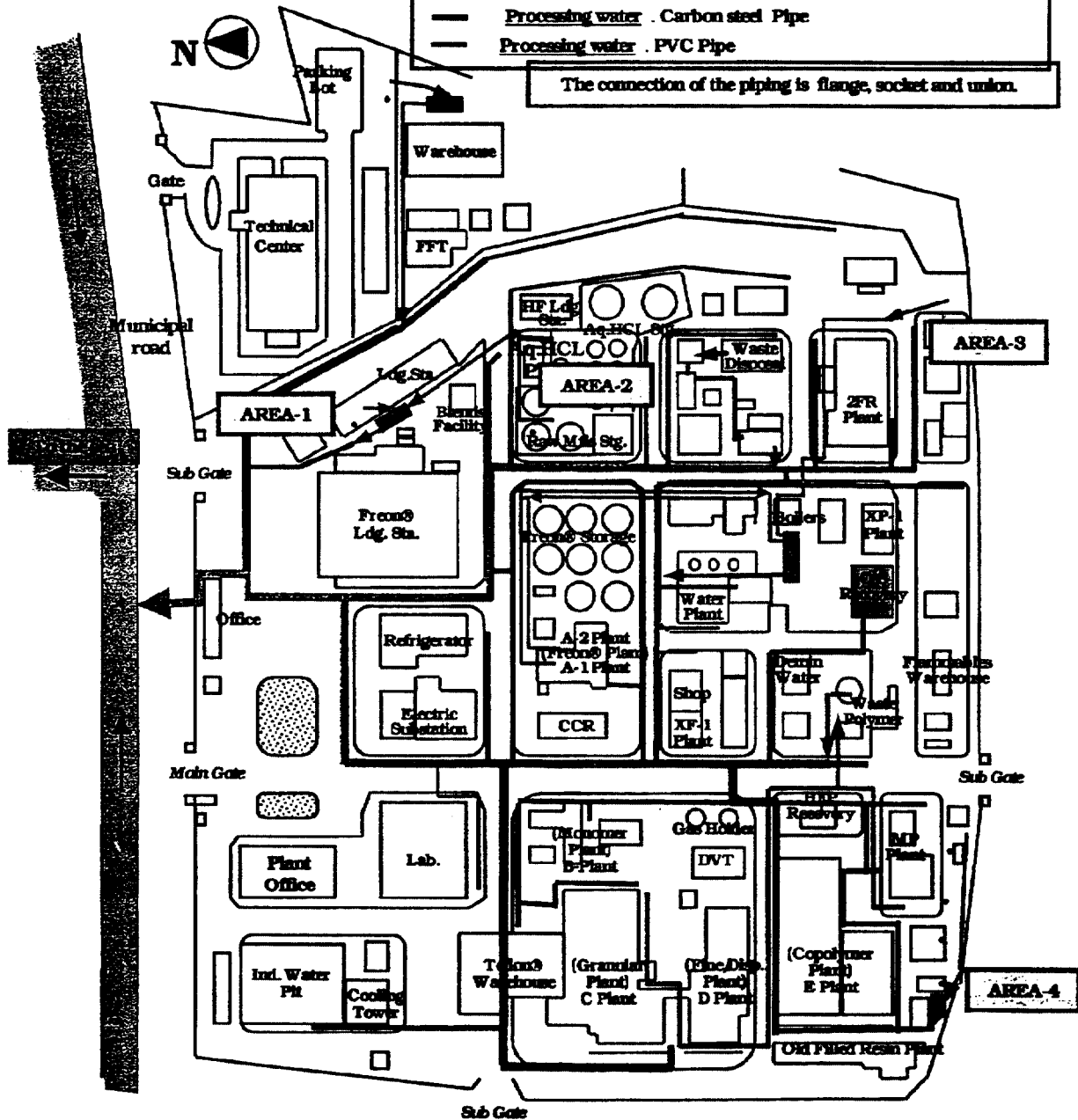
Contaminated (PCE/CTC/etc.) water . PVC Pipe

Contaminated (PCE/CTC/etc.) water . Carbon steel Pipe

Processing water . Carbon steel Pipe

— Processing water . PVC Pipe

The connection of the piping is flange, socket and union.



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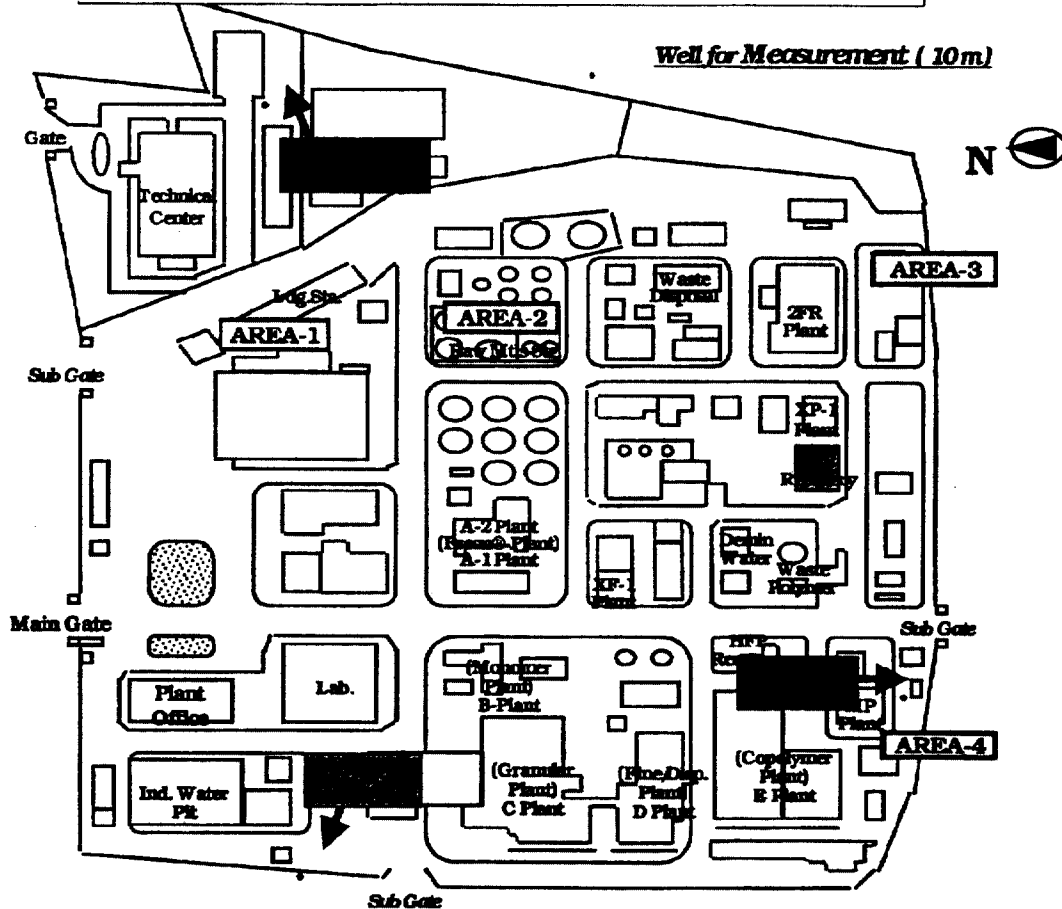
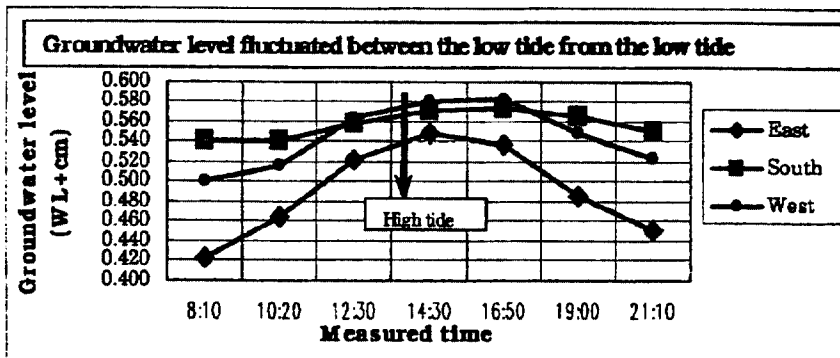
Groundwater level fluctuated of SHIMIZU WROKS

Measured day F 13 Nov. 1998

Measured condition F@The time of the high tide E 0:51 & 13:58

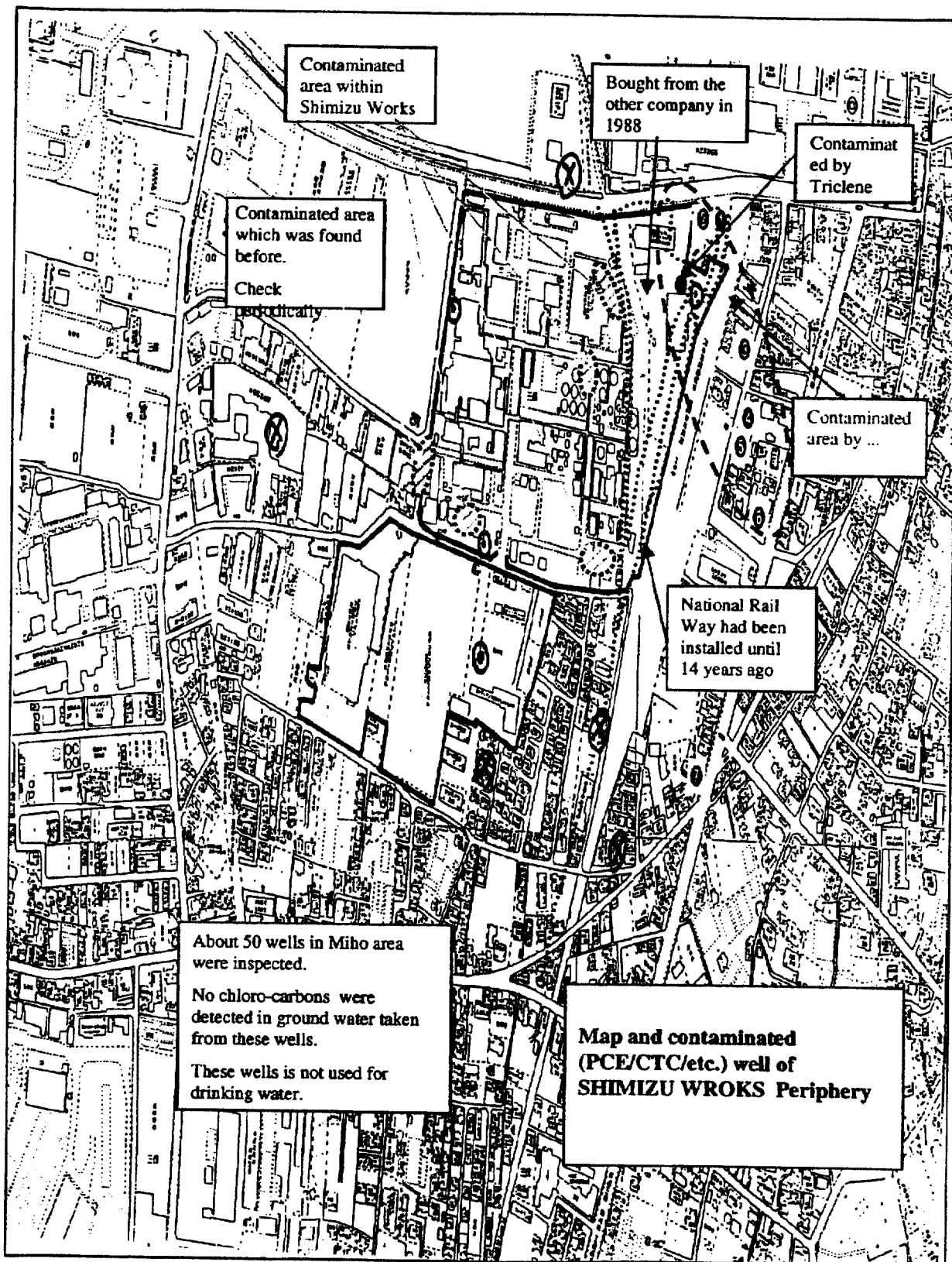
Measured time	8:10	10:20	12:30	14:30	16:50	19:00	21:10
East	0.422	0.464	0.522	0.549	0.538	0.485	0.451
South	0.540	0.540	0.558	0.571	0.573	0.565	0.551
West	0.501	0.517	0.564	0.581	0.582	0.548	0.523

Unit: cm



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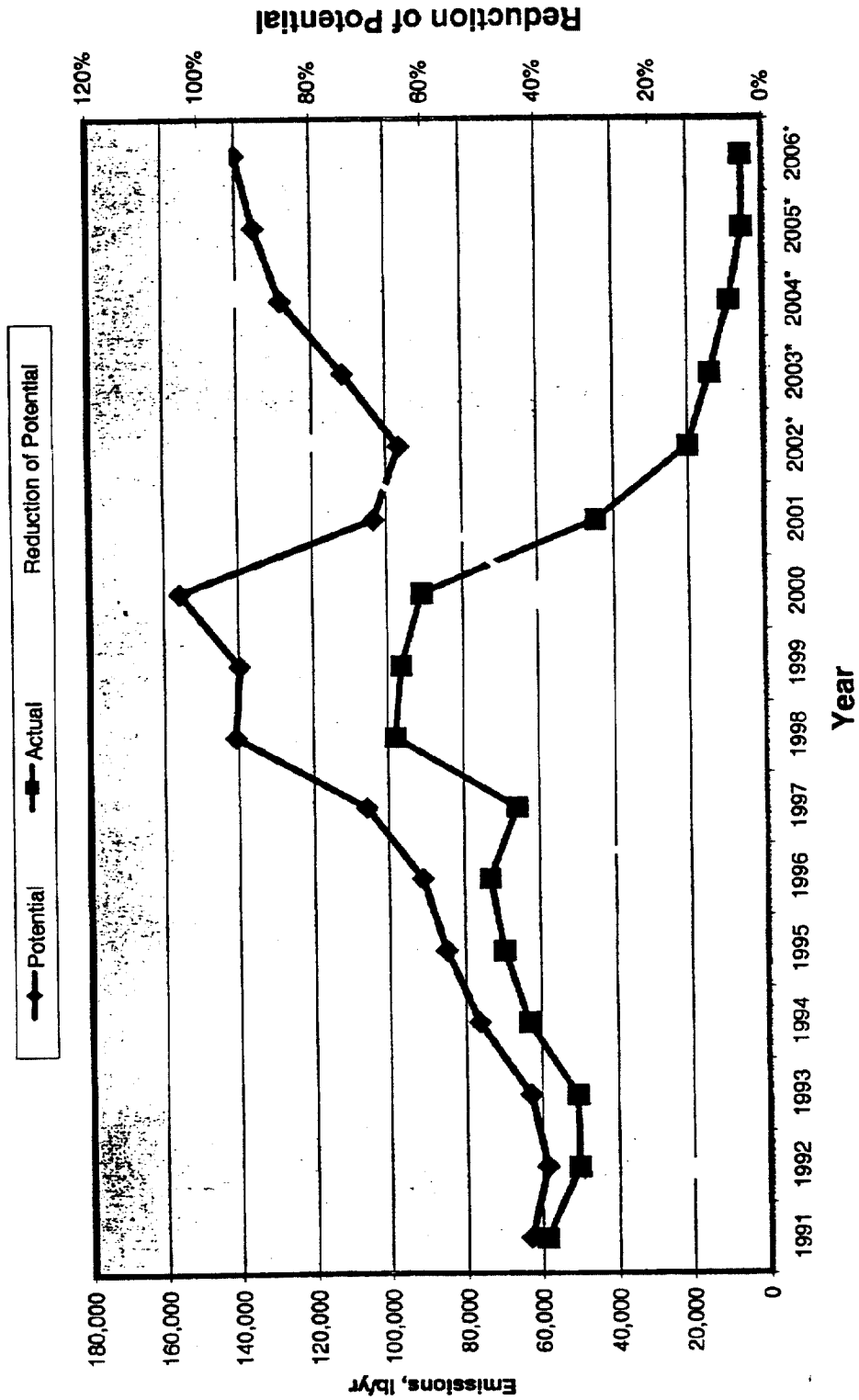
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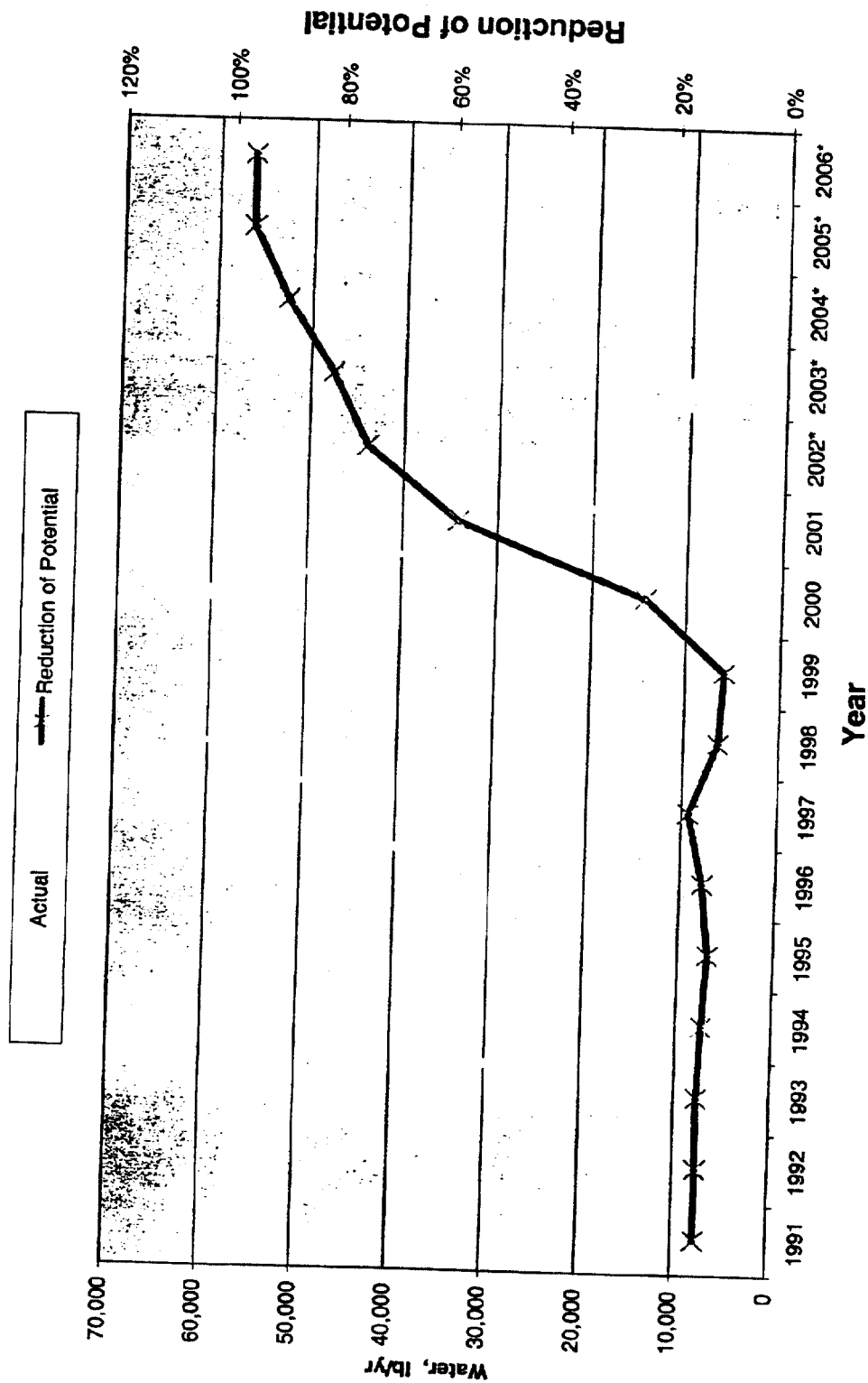
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Total Emission



Water Emission



Air Emission

