CARSWELL AFB
TEXAS

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 766

Carswell/Plant 4
Restoration Advisory Board Meeting
November 13, 2003
6:00–8:00 pm

Agenda

Welcome/Introductions/Minutes	5 minutes
Westworth Redevelopment Authority Update	10 minutes
Action Items	
Community Co-Chair Nomination and Election	5 minutes
Air Force Plant 4/George Walters Program Update	15 minutes
Carswell Off-Base/Charles Pringle Program Update – Sanitary Sewer System Field Work Update – Weapons Storage Area EOD Conversion to Residential Safety Clearance Update – Permeable Reactive Barrier Expansion Near Golf Course Update – Plant 4 ROD Amendment/Accomplish OPS for Golf Course Update Projected Future Land Transfers – Off-Site Weapons Storage Area FOST Update – Golf Course Parcels/Total Update Radiological Maintenance Munitions Waste Update	15 minutes
Carswell On-Base/Mike Dodyk Program Update	5 minutes
Next Meeting Agenda	5 minutes
Open Discussion/Questions	5 minutes

CARSWELL/PLANT 4
RESTORATION ADVISORY BOARD MEETING

DRAFT
Summary Minutes of November 13, 2003
Regular Quarterly Meeting

A regular meeting of the Carswell/Plant 4 Restoration Advisory Board (RAB) was scheduled to be held November 13, 2003 at the Lockheed Martin Recreation Association Ranch House, 3400 Bryant Irvin Road. The RAB meeting began at 6:00 p.m.. As only one community member was in attendance, and no RAB members, the meeting was adjourned at 6:20 p.m.. In lieu of presenting technical briefings, Air Force representatives spent time with the attending community member providing information tailored to meet her specific questions and concerns. The meeting agenda and list of those in attendance are presented below. The next meeting is scheduled for February 12, 2004.

PLANNED AGENDA

Welcome/Introductions/Minutes

Westworth Redevelopment Authority Update

Action Items

Community Co-Chair Nomination and Election

Air Force Plant 4 (George Walters)
Program Update

Carswell Off-Base (Charles Pringle)
Program Update
- Sanitary Sewer System Field Work Update
- Weapons Storage Area EOD Conversion to Residential Safety Clearance Update
- Permeable Reactive Barrier Expansion Near Golf Course Update
- Plant 4 ROD Amendment/Accomplish OPS for Golf Course Update

Projected Future Land Transfers
- Off-Site Weapons Storage Area FOST Update
- Golf Course Parcels/Total Update

Carswell On-Base (Mike Dodyk)
Program Update

Next Meeting Agenda

Open Discussion/Questions

IN ATTENDANCE

Carswell DERA (On-Base)
Mike Dodyk, AFCEE, Resident Engineer
Mike Hawkins, AFCEE Public Affairs
Andrea Linder, Booz Allen & Hamilton
Audrie Medina, Booz Allen & Hamilton
Lynn Morgan, HydroGeoLogic, Inc.
Miquette Rochford, HydroGeoLogic, Inc.
Russell Cason, Weston Solutions, Inc.
Todd Harrah, Weston Solutions, Inc.

Carswell AFRPA (Off-Base)
Charles Pringle, HQAFCEE/ERB

Air Force Plant 4
George Walters, AFP 4 Project Manager, ASC, Wright Patterson Air Force Base
Estella Holmes, US Air Force, Wright Patterson Air Force Base
Gregg McGraw, Shaw Group
Karen Katzenbach, Public Affairs, Wright Patterson Air Force Base

Texas Commission on Environmental Quality
Ray Risner
Tim Sewell

Lockheed Martin
Ed Daniels
Norman Robbins

Others (Off-Base)
Chris Baack, Community Member
Jim Scanlan, City of Fort Worth Water Department
Chris Breitling, City of Fort Worth Environmental Management Department
Sonja Jones, US Geological Survey
Sachin Shah, US Geological Survey

Comments regarding the meeting minutes should be sent to:

Ms. Miquette Rochford
HydroGeoLogic, Inc.
1155 Herndon Parkway, Ste. 900
Herndon, VA 20170
Phone: (703) 736-4511
Fax: (703) 471-4180
e-mail: mer@hgl.com

Headquarters U.S. Air Force

Integrity - Service - Excellence

Carswell Off-Base BRAC UPDATE Restoration Advisory Board

Charles C. Pringle, BEC

13 NOV 2003

U.S. AIR FORCE

Air Force Center for Environmental Excellence

Promoting Readiness through Environmental Stewardship

NAS Fort Worth JRB Installation Restoration Program Update

Michael R. Dodyk, P.E.
AFCEE
November 13, 2003

Installation Restoration History

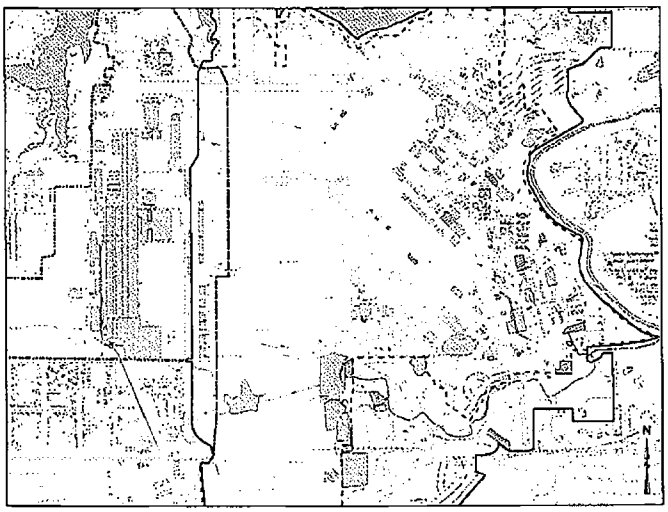
The Air Force is responsible for cleanup of environmental contamination that occurred prior to October 1, 1993 (while Carswell AFB was active.)

A total of 87 sites were identified that required investigation and closure.

- 68 Solid Waste Management Units (SWMU)
- 19 Areas of Concern (AOC)

Promoting Readiness through Environmental Stewardship 2

SWMUs and AOCs



Promoting Readiness through Environmental Stewardship 3

Site Closure Update

To date, the Air Force has received closure on 81 of the 87 sites (6 sites remaining).

- Most recently, regulators approved site closure under Risk Reduction Standard (RRS) 2 at SWMUs 19, 20, and 21 if public notification and a comment period go unopposed.
- SWMU 49 (Former Aircraft Washing Area) was submitted for closure under RRS 2 in September 2003.

Of the 6 remaining sites:

5 will be closed by 12/30/04 (SWMUs 28, 49, 54, 55, 66)

AOC 1 will be closed by 12/30/05

Promoting Readiness through Environmental Stewardship 4

Basewide Historical Investigation

The Air Force has continued efforts to conduct historical research to ensure complete investigation of possible sources of contamination.

- **Air Force personnel stationed at Carswell AFB will be interviewed to obtain historical operations information.**

- **The Air Force is *Still looking for former Carswell AFB personnel.* Call toll free 1-800-836-8134.**

Field Activities

Soil and sediment delineation sampling occurred at the Storm Water Interceptors (SWMU 54) and East Gate Oil/Water Separator (SWMU 55) during September 2003.

Soil delineation sampling and soil removal occurred at Landfill 1 (SWMU 28) during September 2003.

The fourth round of quarterly groundwater sampling at the former base gas/service station (AOC 1) occurred during October 2003.

100 monitoring wells located across the base will be decommissioned according to state requirements. This is the first phase of well decommissioning.

Vegetable Oil Injection

Pilot Study using vegetable oil is injected into groundwater to stimulate bacteria to breakdown TCE contamination.

Vegetable oil was injected in the northern lobe area (flight line).

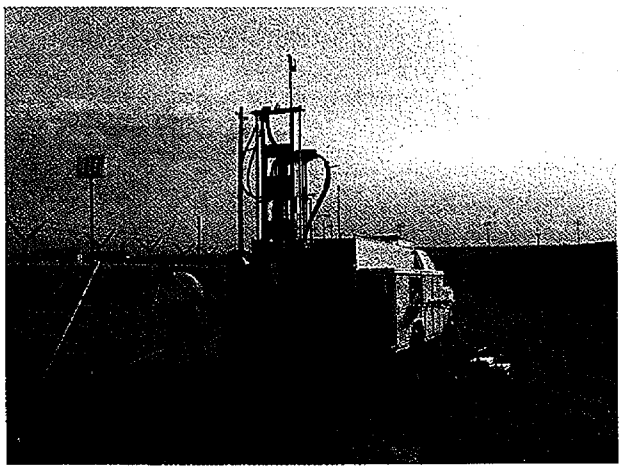
Injection was completed in July. First monitoring event will occur in January 2004.

Promoting Readiness through Environmental Stewardship 7

Veg. Oil Study Flight Line Area

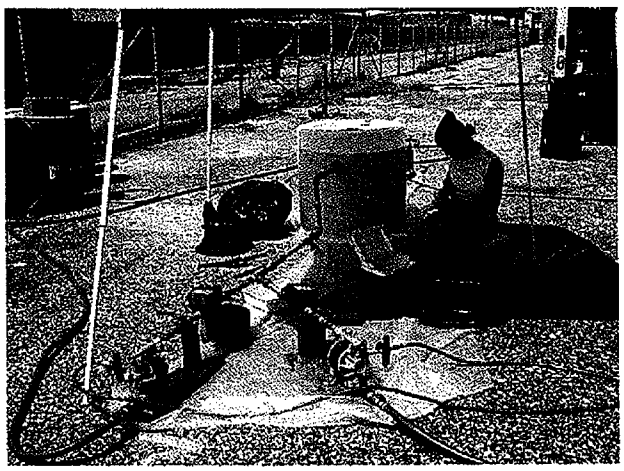
Promoting Readiness through Environmental Stewardship 8

Drilling Holes for Sampling



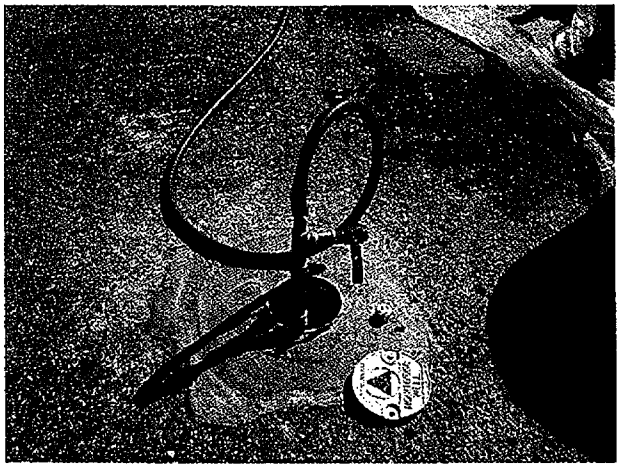
Promoting Readiness through Environmental Stewardship 9

Injection Process



Promoting Readiness through Environmental Stewardship 10

Monitoring Well Injection



Permeable Reactive Barrier

The PRB was installed in April/May 2002 to remediate groundwater contaminated with trichloroethene (TCE). Groundwater sampling is conducted every 3 months to monitor performance.

The sixth round of quarterly PRB Performance monitoring was conducted in August 2003.

The PRB is successfully remediating groundwater.

PRB Animation

[Animation showing the effectiveness of the PRB.]

Upcoming Field Work

Winter 2003:

-The seventh round of PRB performance monitoring will be conducted later this month.

-Sanitary sewer system removal action is scheduled to occur this winter.

-Second phase of well decommissioning on base will be initiated.

Upcoming Fieldwork (con't)

Early 2004:

-Performance monitoring of the AOC 1 groundwater treatment system will be conducted in January.

Performance monitoring of the vegetable oil study will be conducted in January

Promoting Readiness through Environmental Stewardship 15

Documents Under Review

Documents Under Review by Regulators:

Final RFI of SWMU 49 (Former Aircraft Washing Area).

Documents Under Discussion Between Regulators and AFCEE Prior to Finalization:

Focused Feasibility Study on the Southern Lobe TCE Plume.

Promoting Readiness through Environmental Stewardship 16

Former Carswell Air Force Base
Fort Worth, Texas

HydroGeoLogic, Inc., is under contract to the Air Force Center for Environmental Excellence to **research the operational history** of the **former Carswell Air Force Base**, which began serving as a military installation in 1942 and is presently under the U.S. Navy's control. The site is currently known as **Naval Air Station Fort Worth** and was formerly known by the following names:

Tarrant Field Airdrome
Fort Worth Army Airfield
Griffiss Air Base
Fort Worth Air Base
Carswell Air Force Base

We wish to interview individuals knowledgeable about operations at these facilities. If you have any information concerning these operations, please call the toll free number below.

1-800-836-8134

AF CENTER FOR ENVIRONMENTAL EXCELLENCE

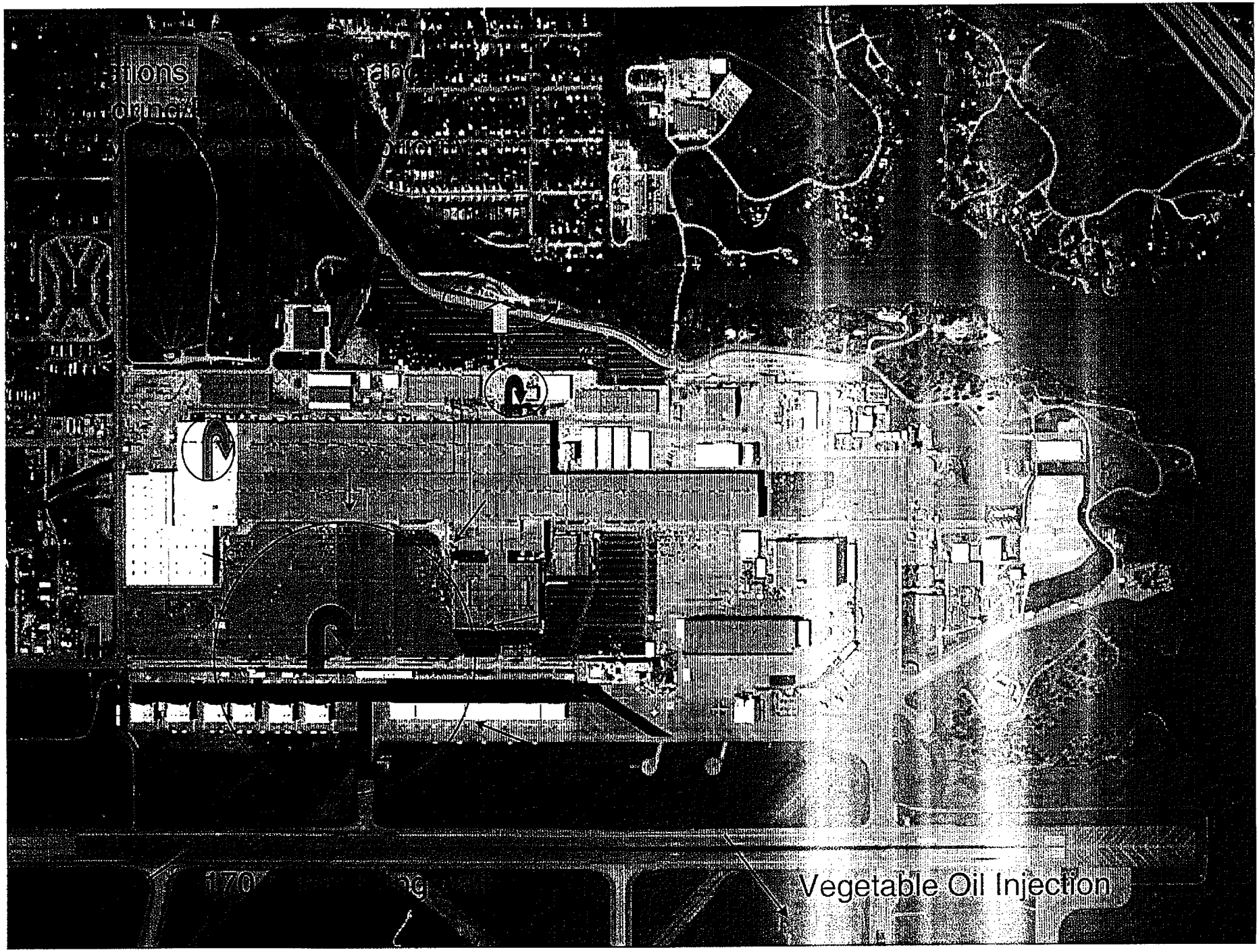
HYDRO GeoLogic INC.

AFC0021...\RABflyer.cdr

HydroGeoLogic, Inc. ◆ 1155 Herndon Parkway, Suite 900 ◆ Herndon, VA 20170

NO ONE ELSE COMES CLOSE
U.S. AIR FORCE
G. CERUJALES

AERONAUTICAL SYSTEMS CENTER
Treatment Systems
Long Term Monitoring

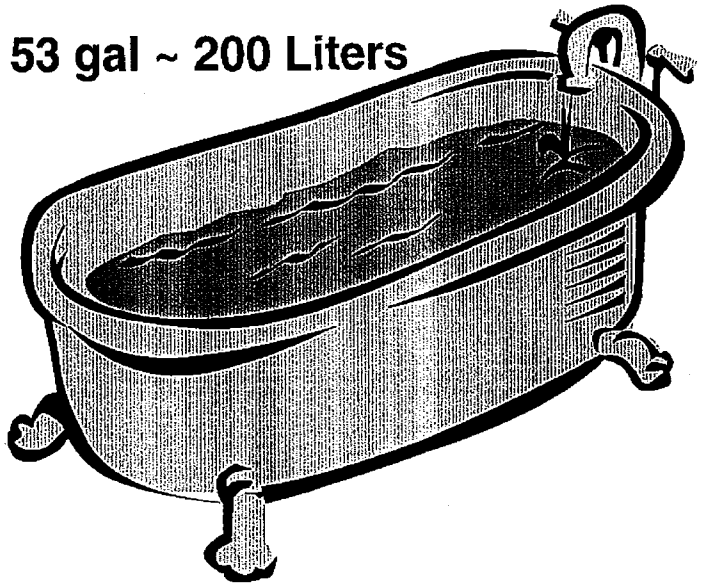

Vegetable Oil Injection

Measurements in Water

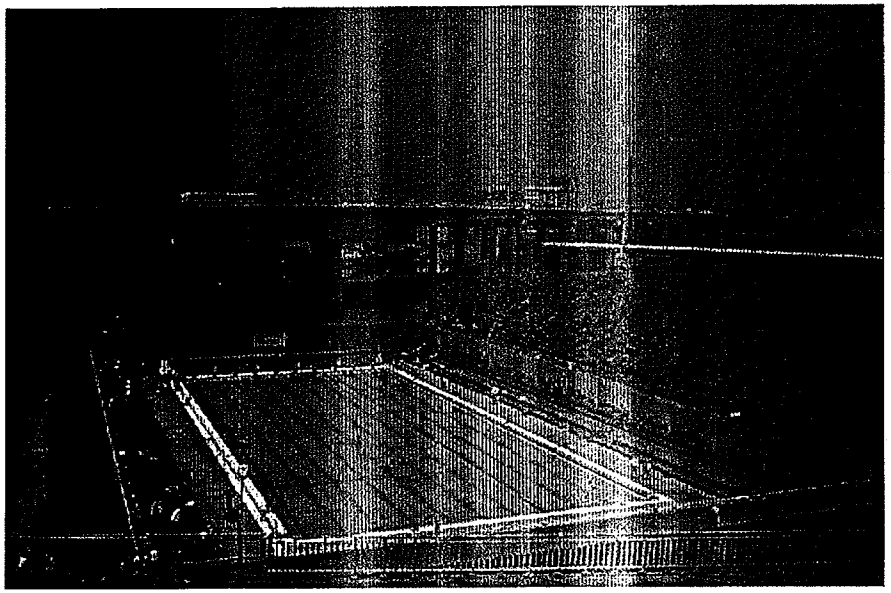
1 drop

= 2 part per Million
(ppm)
(mg/L)

53 gal ~ 200 Liters



130,000 gal Olympic Pool ~ 500,000 L

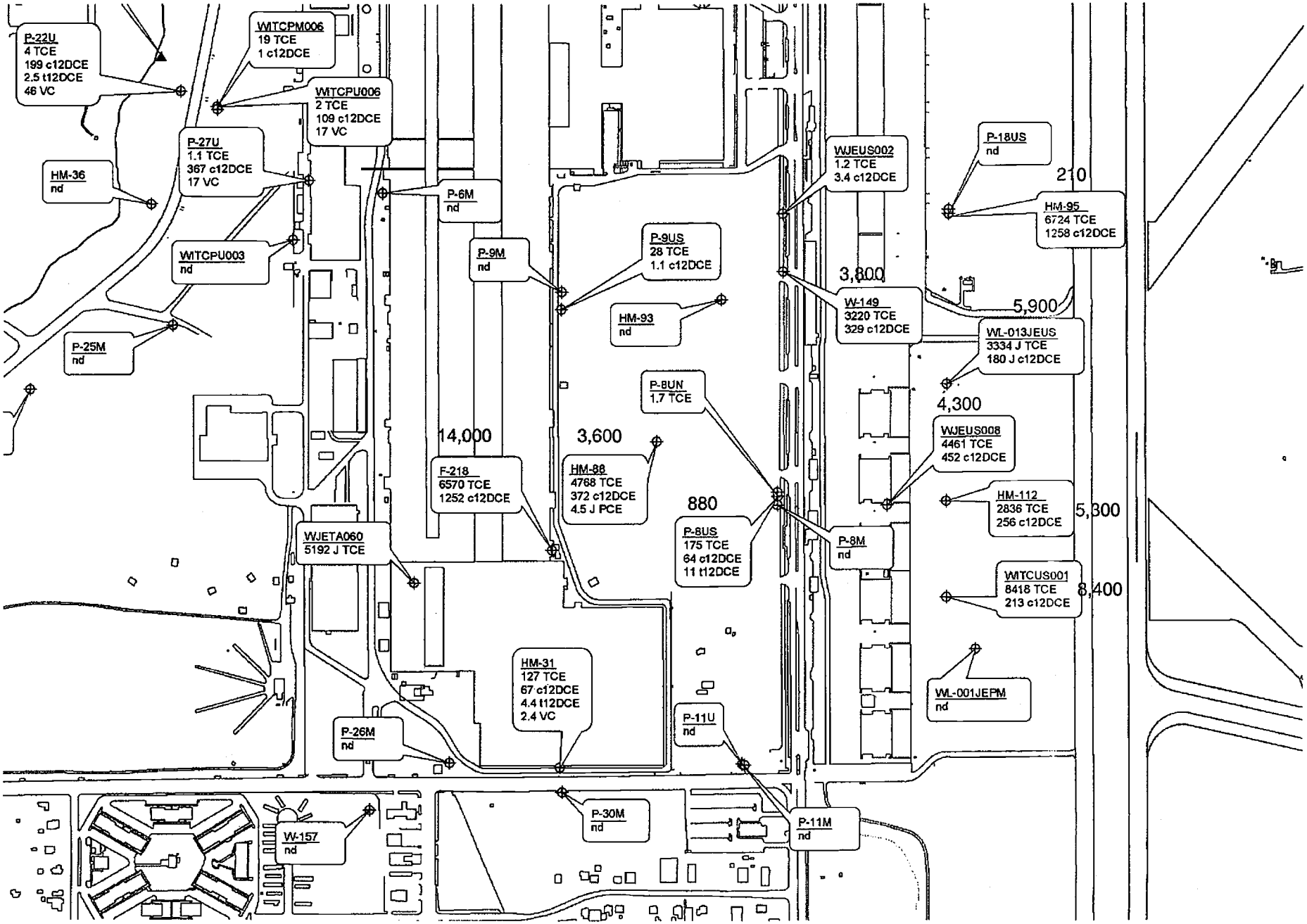


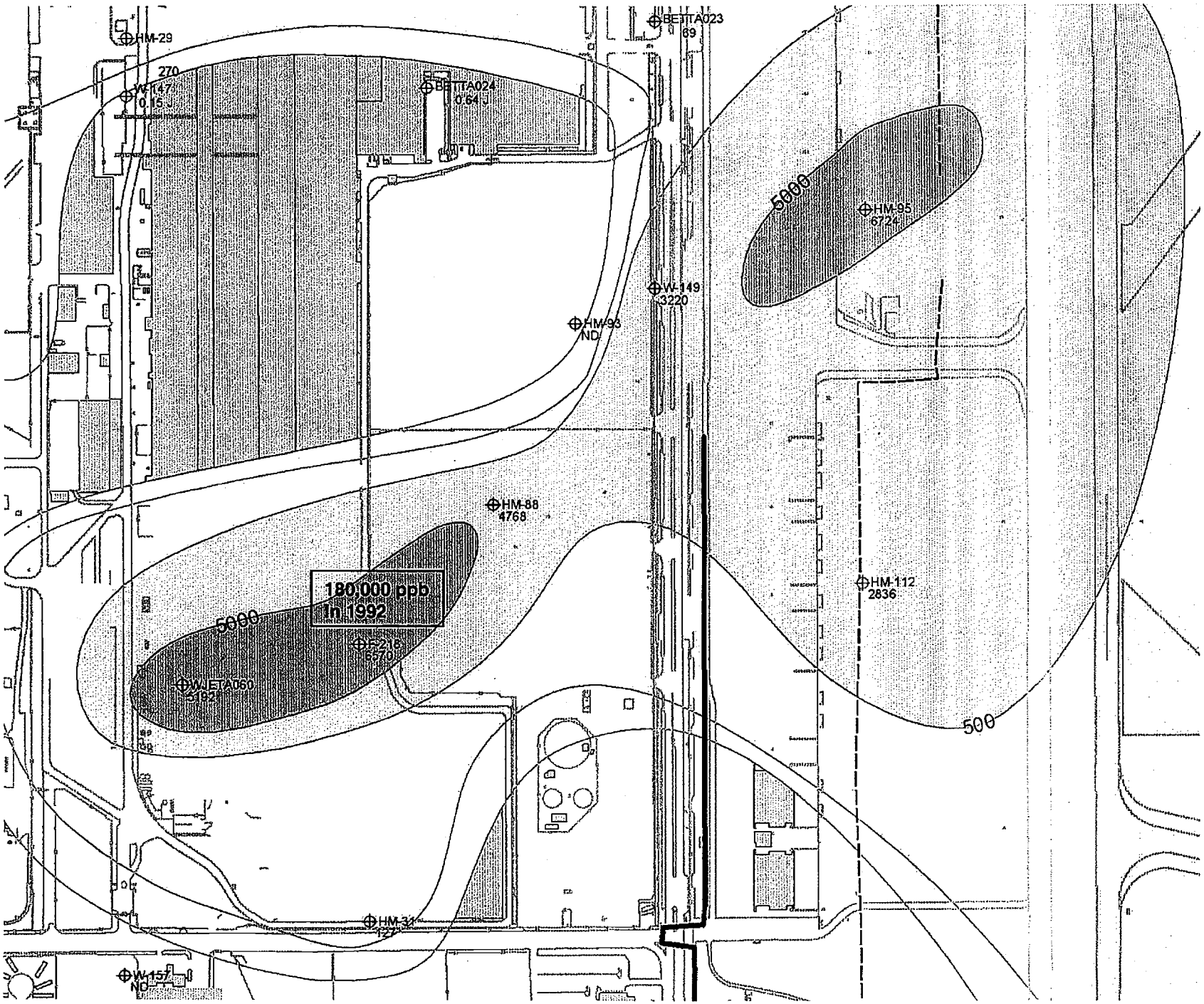
1000 ppb = 1 ppm

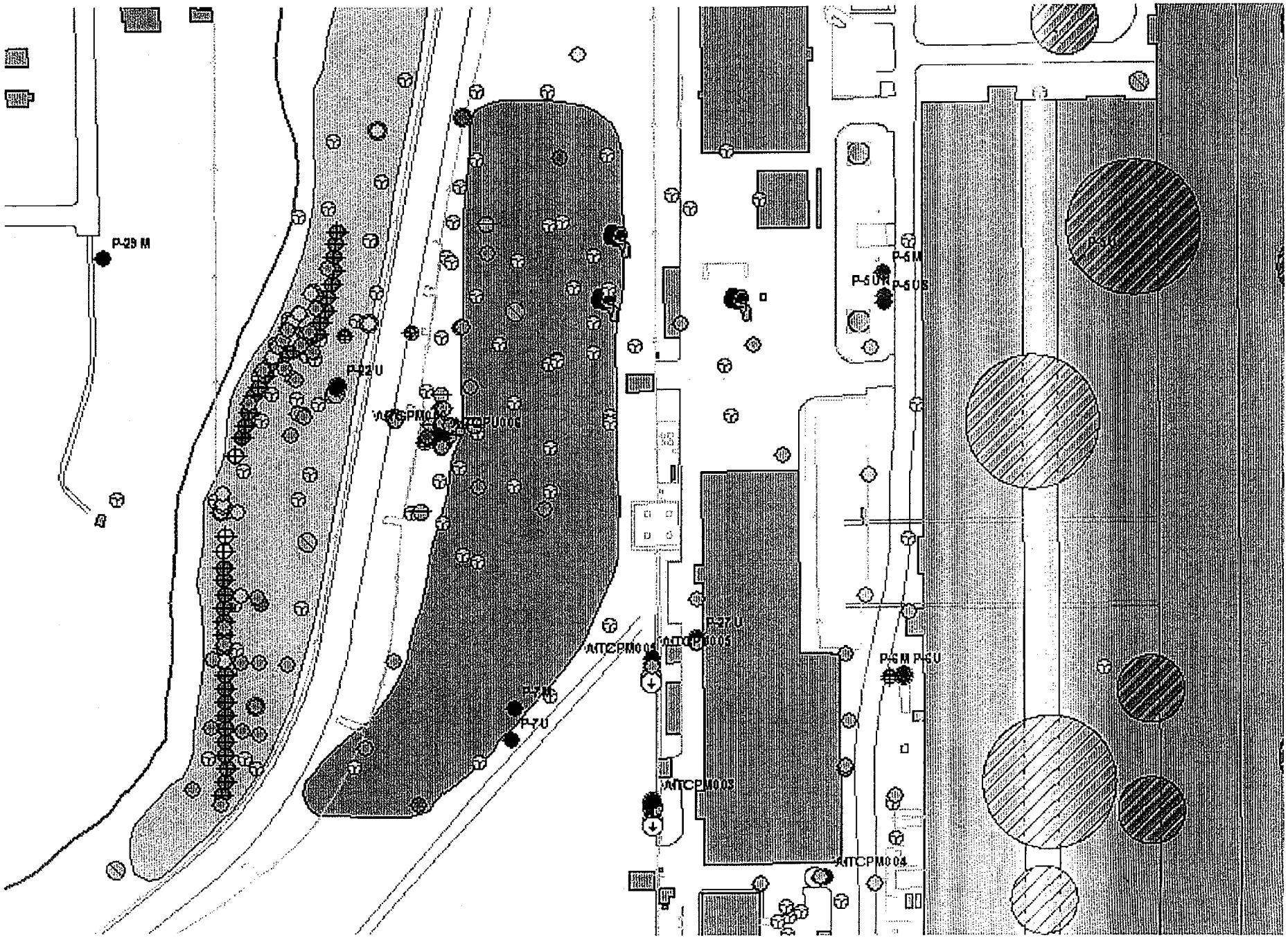
= 1 part per Billion
(ppb)
(ug/L)

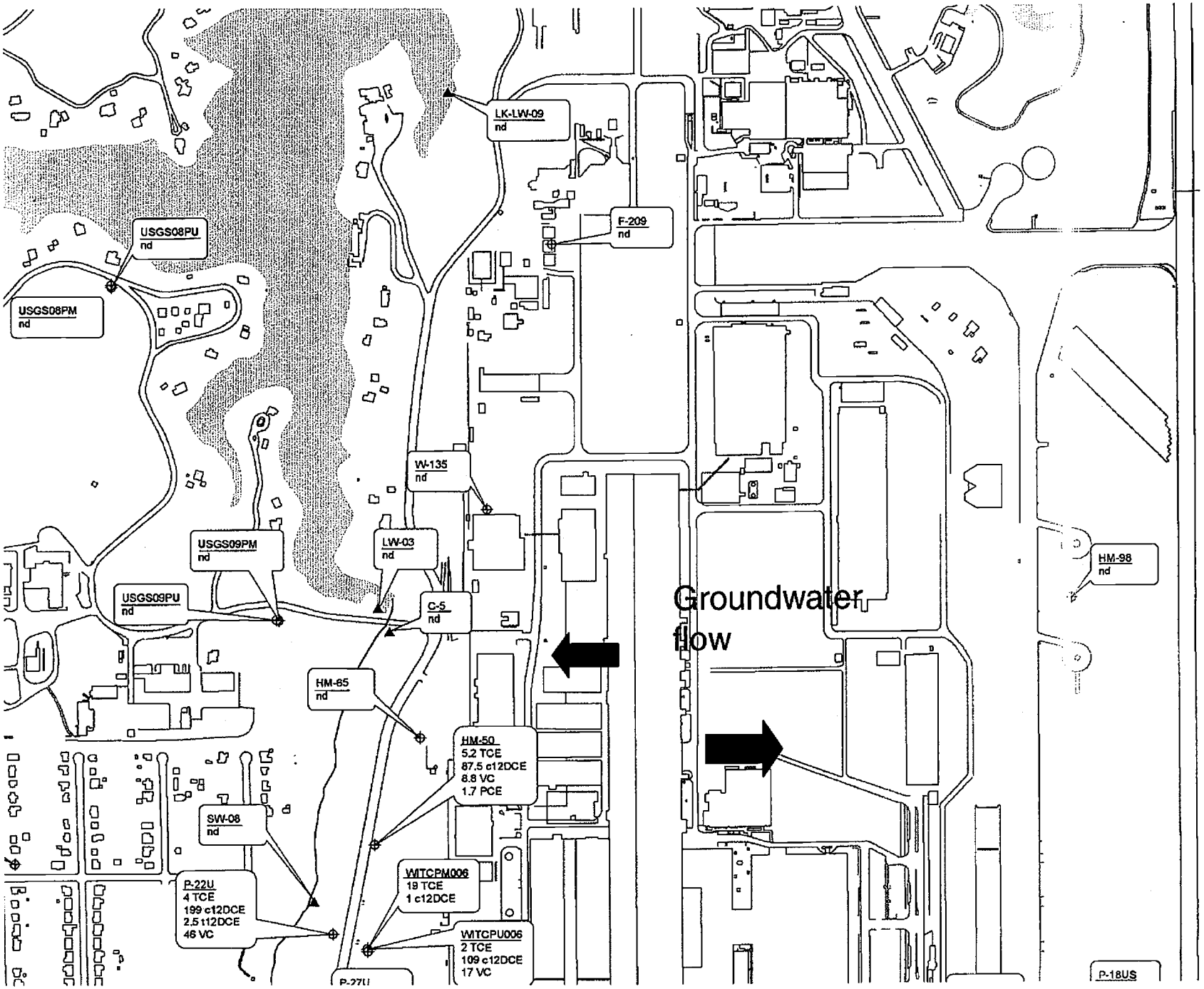
(or, 1 minute in 1,903 years!)

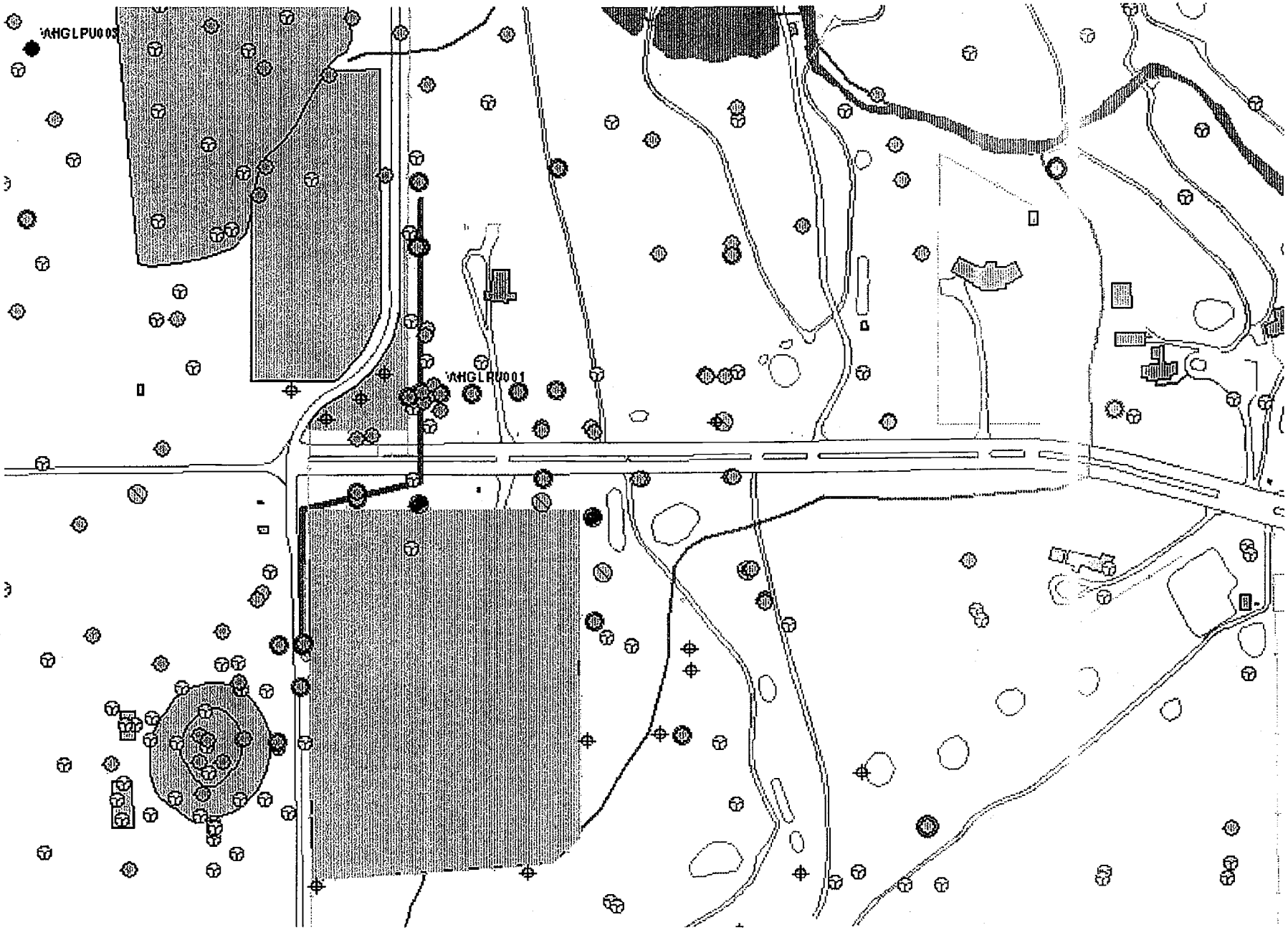
(Source: Alaska Dept of Environmental Conservation)

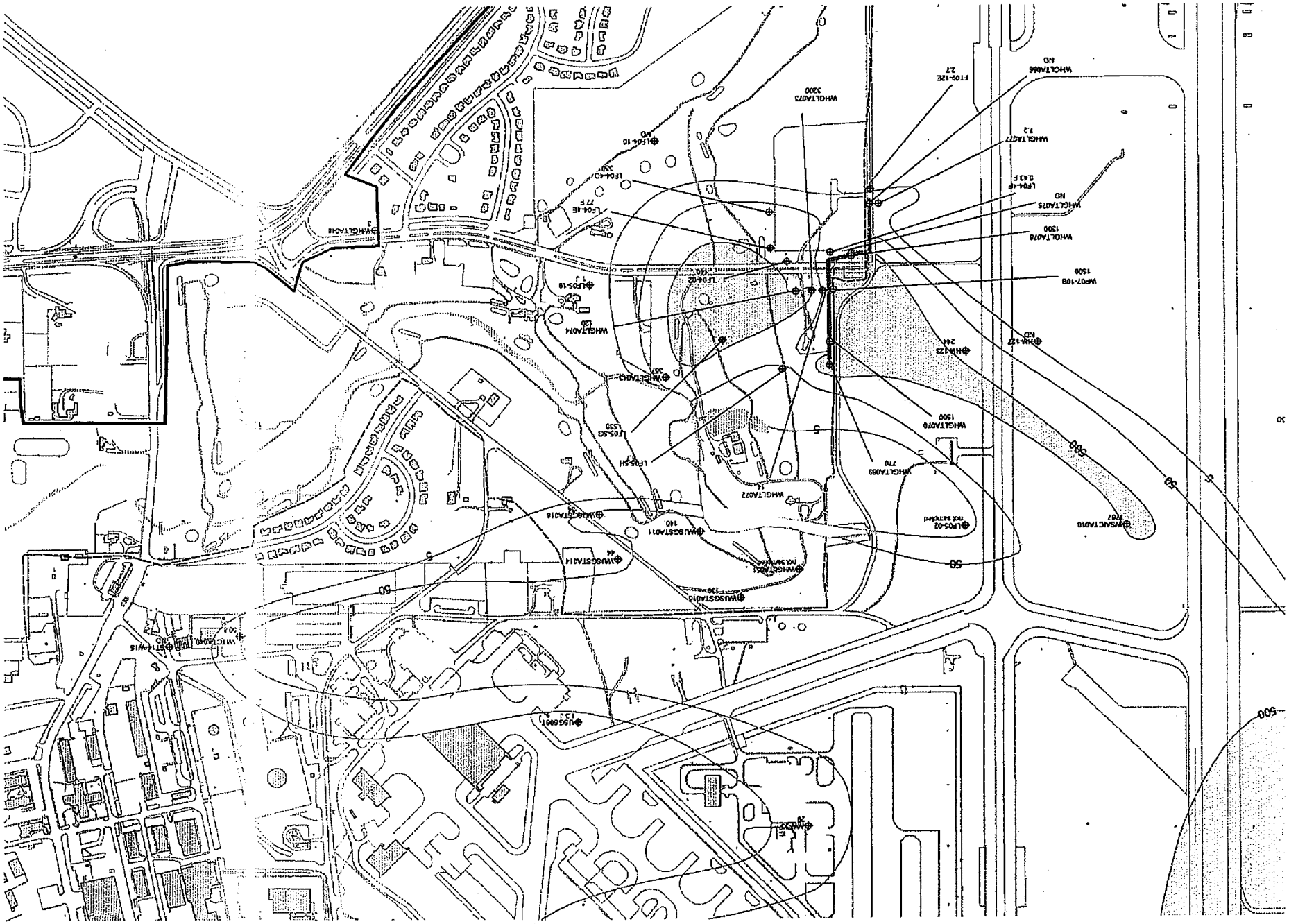

P-22U
4 TCE
199 c12DCE
2.5 t12DCE
46 VC
WITCPM006
19 TCE
1 c12DCE
WITCPU006
2 TCE
109 c12DCE
17 VC
P-27U
1.1 TCE
367 c12DCE
17 VC
HM-36
nd
P-6M
nd
WITCPU003
nd
P-25M
nd
P-9M
nd
P-9US
28 TCE
1.1 c12DCE
HM-93
nd
WJEUS002
1.2 TCE
3.4 c12DCE
P-18US
nd
210
HM-95
6724 TCE
1258 c12DCE
3,800
W-149
3220 TCE
329 c12DCE
5,900
WL-013JEUS
3334 J TCE
180 J c12DCE
P-8UN
1.7 TCE
4,300
WJEUS008
4461 TCE
452 c12DCE
14,000
3,600
F-218
6570 TCE
1252 c12DCE
HM-88
4768 TCE
372 c12DCE
4.5 J PCE
880
HM-112
2836 TCE
256 c12DCE
5,300
P-8US
175 TCE
64 c12DCE
11 t12DCE
P-8M
nd
WJETA060
5192 J TCE
WITCUS001
8418 TCE
213 c12DCE
8,400
HM-31
127 TCE
67 c12DCE
4.4 t12DCE
2.4 VC
WL-001JEPM
nd
P-11U
nd
P-26M
nd
P-30M
nd
P-11M
nd
W-157
nd

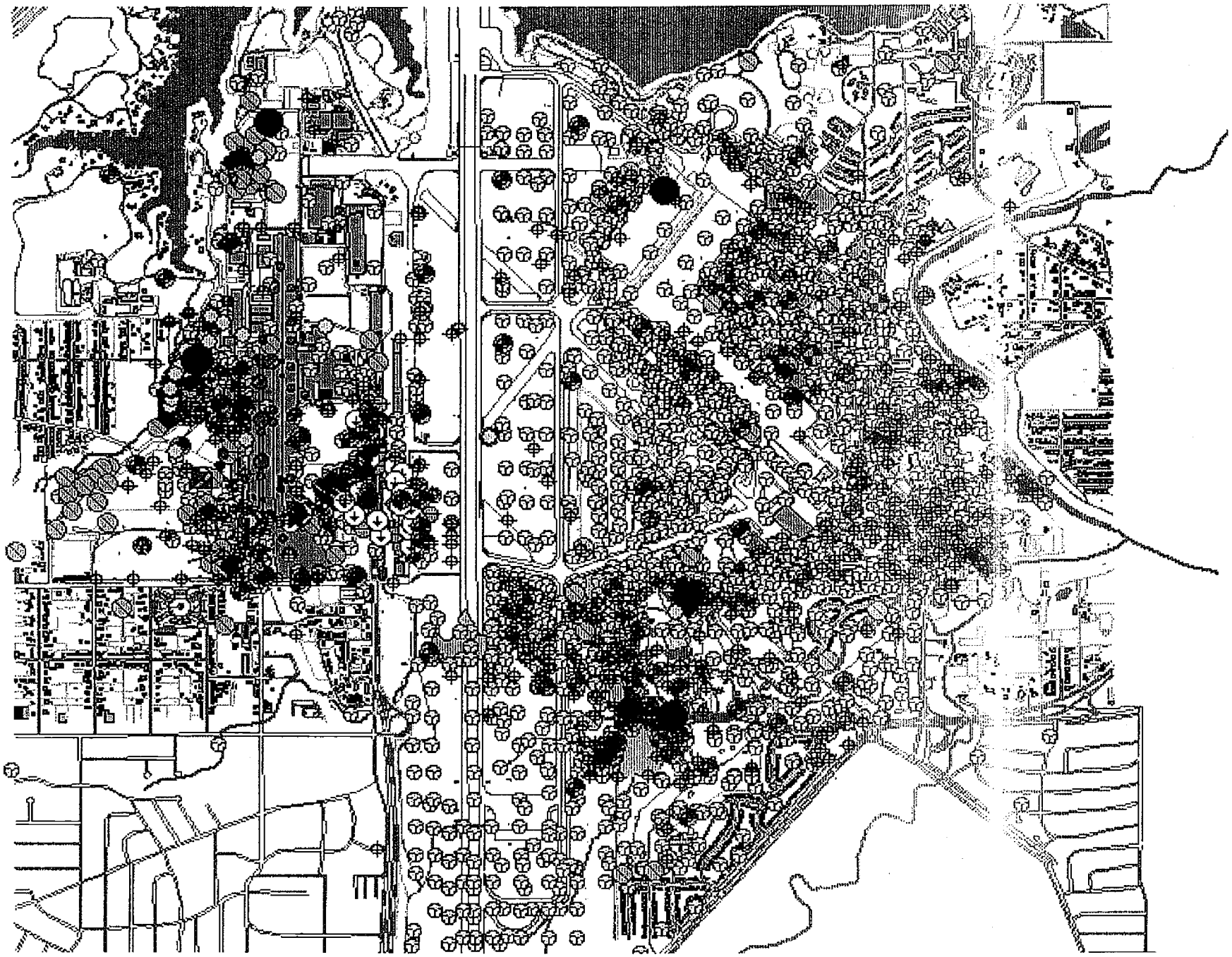

HM-29
270
W-147
0.15 J
BETTA024
0.64 J
BETTA023
69
5000
HM-95
6724
W-149
3220
HM-93
ND
HM-88
4768
180,000 ppb
In 1992
5000
F-216
6570
W-ETA060
3192
HM-112
2836
500
HM-31
127
W-157
ND


P-29 M
P-22 U
P-7 M
P-7 U
P-27 U
P-6 M
P-6 U
P-5 M
P-5 U
P-5 U
ANTCPM003
ANTCPM004


LK-LW-09
nd
F-209
nd
USGS08PU
nd
USGS08PM
nd
W-135
nd
USGS09PM
nd
LW-03
nd
USGS09PU
nd
C-5
nd
HM-98
nd
Groundwater flow
HM-65
nd
HM-50
5.2 TCE
87.5 c12DCE
8.8 VC
1.7 PCE
SW-08
nd
WITCPM006
19 TCE
1 c12DCE
P-22U
4 TCE
199 c12DCE
2.5 t12DCE
46 VC
WITCPU006
2 TCE
109 c12DCE
17 VC
P-18US


VAHGLPU003
VAHGLPU001


WMGLTA072
3200
WMGLTA056
ND
FT09-12E
2.7
WMGLTA077
7.2
LF04-4E
0.43 F
WMGLTA075
ND
WMGLTA078
1300
WP07-10B
1500
WMGLTA074
130
LF04-6E
77 E
LF04-10
ND
LF04-6Z
LF05-19
WMGLTA070
1500
WMGLTA069
770
WMGLTA072
LF05-5H
LF05-5Z
1550
WMSANTA010
1707
LF05-0Z
not analyzed
WMGSTA011
310
WMGSTA016
WMGSTA014
44
WMGSTA010
130
WMGLTA061
not analyzed
WMGLTA073
WMGLTA016
3
WMGLTA020
WMGLTA018
WMGLTA040
WMGSTA001
500
50
5



Discussion

Admininstrative Record CDs at
The White Settlement Library!

Web sites: George's favorites!

www.Safedrinkingwater.com

www.tceq.state.tx.us

www.epa.gov/earth1r6

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE