

FRO - 1989-5-29-6

# HYDROGEOLOGIC INVESTIGATION PHASE III

FRONTIER CHEMICAL WASTE PROCESS, INC.  
NIAGARA FALLS, NEW YORK

APRIL 1989

DRAFT

**ecco** INC.

THE ENVIRONMENTAL CONSULTING COMPANY

VOLUME 6

RECEIVED

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OFFICE OF  
CONSERVATION





## BOREHOLE AND MONITORING WELL INSTALLATIONS

- |                                                                                   |                                                                   |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------|
|  | MW-8B-4A,B,C,CB<br>NESTED BEDROCK AND OVERBURDEN MONITORING WELLS |
|  | BH87-2A,2B,2C<br>NESTED BEDROCK AND OVERBURDEN MONITORING WELLS   |
|  | MW-11<br>SINGLE BEDROCK MONITORING WELL                           |
|  | MW-8<br>SINGLE OVERBURDEN MONITORING WELL                         |
|  | BH87-6<br>OVA BOREHOLE GROUTED TO SURFACE ON COMPLETION           |

1988 INVESTIGATIONS BY ECCO, INC.  
INCLUDES BOREHOLES MW-88-1 TO MW-88-14

1987 INVESTIGATIONS BY GOLDEN ASSOCIATES  
INCLUDES BOREHOLES 87-1 TO 87-28

1984-85 INVESTIGATIONS BY THOMSEN ASSOC  
INCLUDES BOREHOLES MW-9 TO MW-17

1981 INVESTIGATIONS BY WEHRAN ENGINEERING  
INCLUDES BOREHOLES MW-1 TO MW-8

## PLANT SITE DRAINAGE AND SEWER FACILITIES

- |                                                                                   |                               |
|-----------------------------------------------------------------------------------|-------------------------------|
|  | DRAINAGE SWALE                |
|  | ACTIVE SEWER LINE             |
|  | MANHOLE                       |
|  | CONNECTION                    |
|  | CATCH BASIN OR SUMP           |
|  | MANHOLE WITH GRATE TYPE COVER |

| MONITORING WELL NO. | HYDROGEOLOGICAL ZONE | MONITORING WELL NO. | HYDROGEOLOGICAL ZONE |
|---------------------|----------------------|---------------------|----------------------|
| MW-2                | ZONE 1 (A FRACTURE)  | BH87-2A             | B FRACTURE           |
| MW-3                | ZONE 1 (A FRACTURE)  | -2B                 | ZONE 1 (A FRACTURE)  |
| MW-4                | ZONE 1 (A FRACTURE)  | -2C                 | OVERBURDEN           |
| MW-5                | OVERBURDEN           | BH87-3A             | B FRACTURE           |
| MW-6                | OVERBURDEN           | -3B                 | ZONE 1 (A FRACTURE)  |
| MW-7                | OVERBURDEN           | -3C                 | OVERBURDEN           |
| MW-8                | OVERBURDEN           | -3D                 | ZONE 1 (B FRACTURE)  |
| MW-9                | B FRACTURE           | BH87-4A             | ZONE 1 (A FRACTURE)  |
| MW-10               | ZONE 1 (A FRACTURE)  | -4B                 | OVERBURDEN           |
| MW-11               | (DESTROYED 1985)     | BH87-5A             | B FRACTURE           |
| MW-12               | B FRACTURE           | -5B                 | ZONE 3 (C FRACTURE)  |
| MW-13               | B FRACTURE           | -5C                 | ZONE 1 (A FRACTURE)  |
| MW-14               | B FRACTURE           | -5D                 | OVERBURDEN           |
| MW-15               | ZONE 1 (A FRACTURE)  | BH87-2B             | ZONE 1 (A FRACTURE)  |
| MW-16               | ZONE 1 (A FRACTURE)  | MW-88-40B           | OVERBURDEN (TYPICAL) |
| MW-17               | ZONE 1 (A FRACTURE)  | MW-88-4A            | A FRACTURE (TYPICAL) |
| MW-18               | ZONE 1 (A FRACTURE)  | MW-88-4B            | B FRACTURE (TYPICAL) |
| MW-19               | B FRACTURE           | MW-88-4C            | C FRACTURE (TYPICAL) |
| BH87-1A             | ZONE 1 (A FRACTURE)  |                     |                      |
| -1B                 | OVERBURDEN           |                     |                      |
| -1C                 |                      |                     |                      |

**DRAFT**

| A FRACTURE | CONCENTRATION | CON TOURS         |
|------------|---------------|-------------------|
|            | TWO MINUS     | MONOCHLOROTOLUENE |

Frontier Chemical Waste Process, Inc.

4626 ROYAL AVENUE, NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

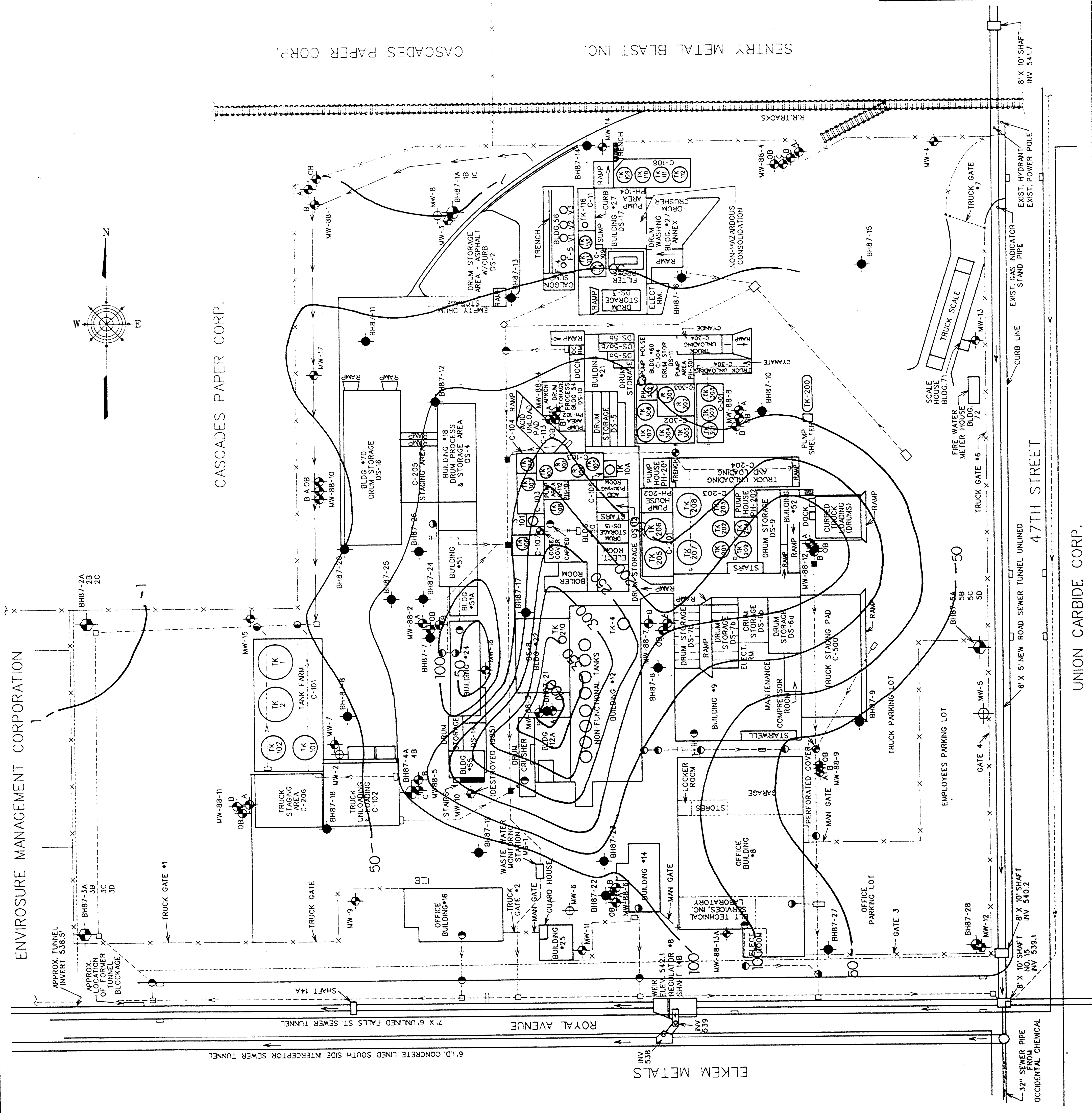
HYDROGEOLOGIC SITE INVESTIGATION PLAN

**ecco** Inc.  
THE ENVIRONMENTAL  
CONSULTING  
COMPANY

|                   |                      |
|-------------------|----------------------|
| DATE: MARCH, 1989 | PROJECT No. 88-041SC |
|                   | DRAWING No.1         |

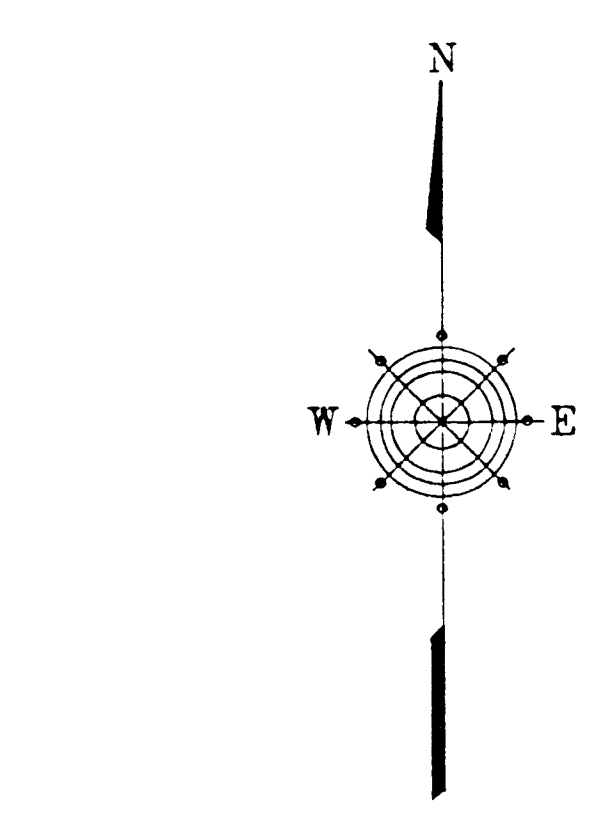
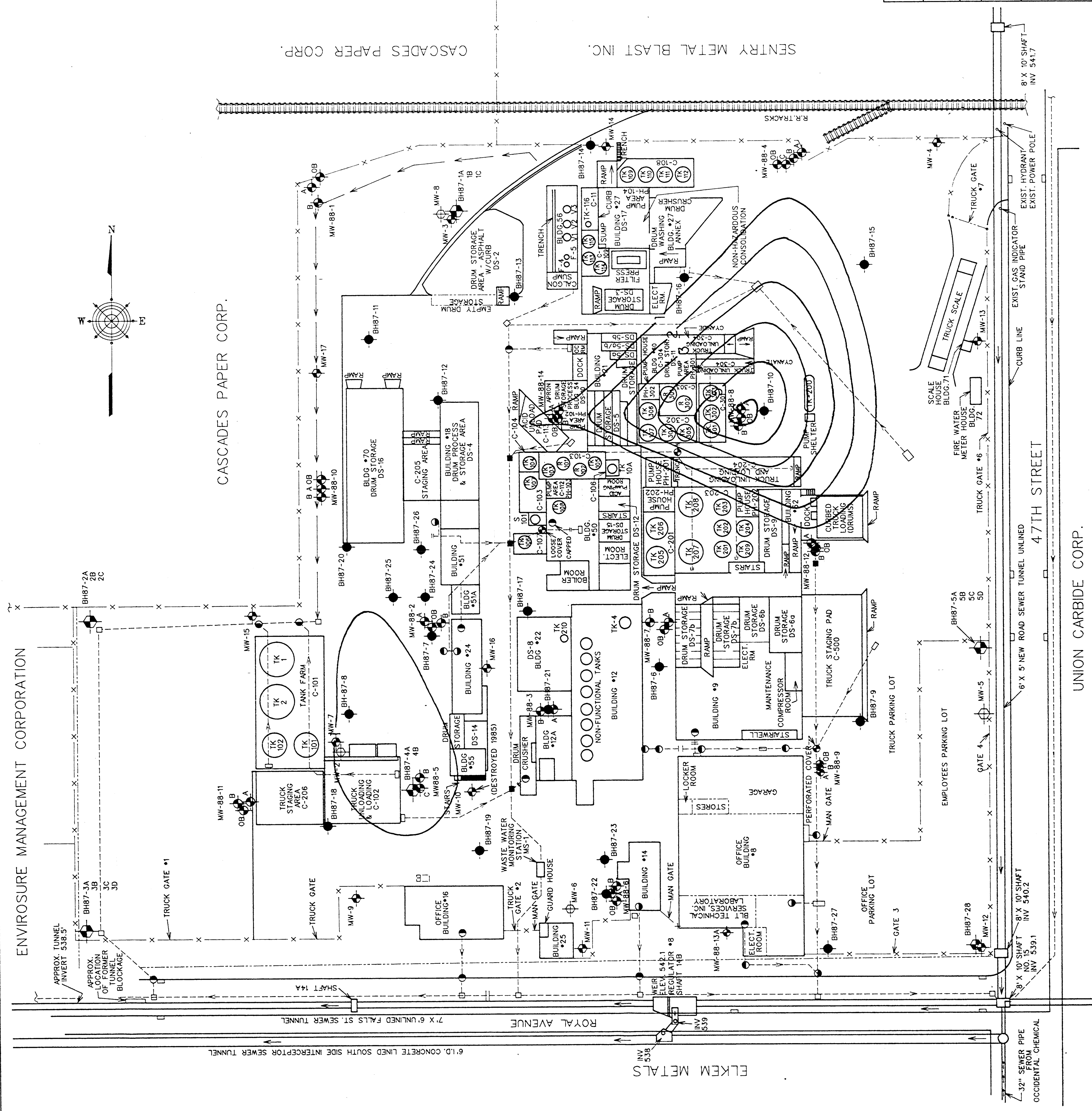
SCALE: 1" = 40'

SUITE 704: BRISBANE BUILDING  
BUFFALO, NEW YORK 14203





ENVIROSURE MANAGEMENT CORPORATION



LEGEND

BOREHOLE AND MONITORING WELL INSTALLATIONS

- MW-88-1A,B,C,OB NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- BH87-2A,2B,2C NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- MW-11 SINGLE BEDROCK MONITORING WELL
- MW-8 SINGLE OVERBURDEN MONITORING WELL
- BH87-6 OVA BOREHOLE GROUTED TO SURFACE ON COMPLETION

1988 INVESTIGATIONS BY ECCO, INC.  
INCLUDES BOREHOLES MW-88-1 TO MW-88-14

1987 INVESTIGATIONS BY GOLDEN ASSOCIATES  
INCLUDES BOREHOLES 87-110 87-28

1984-85 INVESTIGATIONS BY THOMSEN ASSOCIATES  
INCLUDES BOREHOLES MW-9 TO MW-17

1981 INVESTIGATIONS BY WEHRAN ENGINEERING  
INCLUDES BOREHOLES MW-1 TO MW-8

PLANT SITE DRAINAGE AND SEWER FACILITIES

- DRAINAGE SWALE
- - - - - ACTIVE SEWER LINE
- MANHOLE
- CONNECTION
- CATCH BASIN OR SUMP
- MANHOLE WITH GRATE TYPE COVER

| MONITORING WELL NO. | HYDROGEOLOGICAL ZONE        | MONITORING WELL NO. | HYDROGEOLOGICAL ZONE |
|---------------------|-----------------------------|---------------------|----------------------|
| MW-2                | ZONE 1 (A FRACTURE)         | BH87-2A             | B FRACTURE           |
| MW-3                | ZONE 1 (A FRACTURE)         | BH87-2B             | ZONE 1 (A FRACTURE)  |
| MW-4                | ZONE 1 (A FRACTURE)         | -2C                 | OVERBURDEN           |
| MW-5                | OVERBURDEN                  | BH87-3A             | B FRACTURE           |
| MW-6                | OVERBURDEN                  | -3B                 | ZONE 1 (A FRACTURE)  |
| MW-7                | OVERBURDEN                  | -3C                 | OVERBURDEN           |
| MW-8                | OVERBURDEN                  | -3D                 | ZONE 1 (B FRACTURE)  |
| MW-9                | B FRACTURE                  | BH87-4A             | ZONE 1 (A FRACTURE)  |
| MW-10               | ZONE 1 (A FRACTURE)         | -4B                 | OVERBURDEN           |
| MW-11               | B FRACTURE (DESTROYED 1985) | BH87-5A             | B FRACTURE           |
| MW-12               | B FRACTURE                  | -5B                 | ZONE 3 (C FRACTURE)  |
| MW-13               | B FRACTURE                  | -5C                 | ZONE 1 (A FRACTURE)  |
| MW-14               | ZONE 1 (A FRACTURE)         | -5D                 | OVERBURDEN           |
| MW-15               | ZONE 1 (A FRACTURE)         | BH87-28             | ZONE 1 (A FRACTURE)  |
| MW-16               | ZONE 1 (A FRACTURE)         | MW-88-4OB           | OVERBURDEN (TYPICAL) |
| MW-17               | ZONE 1 (A FRACTURE)         | MW-88-4A            | A FRACTURE (TYPICAL) |
| BH87-1A             | B FRACTURE                  | MW-88-4B            | B FRACTURE (TYPICAL) |
| -1B                 | ZONE 1 (A FRACTURE)         | MW-88-4C            | C FRACTURE (TYPICAL) |
| -1C                 | OVERBURDEN                  |                     |                      |

DRAFT

CONCENTRATION CONTOURS  
OVERBURDEN GROUP I

PREPARED FOR:  
FRONTIER CHEMICAL WASTE PROCESS, INC.  
4626 ROYAL AVENUE, NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

HYDROGEOLOGIC SITE INVESTIGATION PLAN

**ECCO** Inc.

THE ENVIRONMENTAL CONSULTING COMPANY

DATE: MARCH, 1989  
SCALE: 1" = 40'

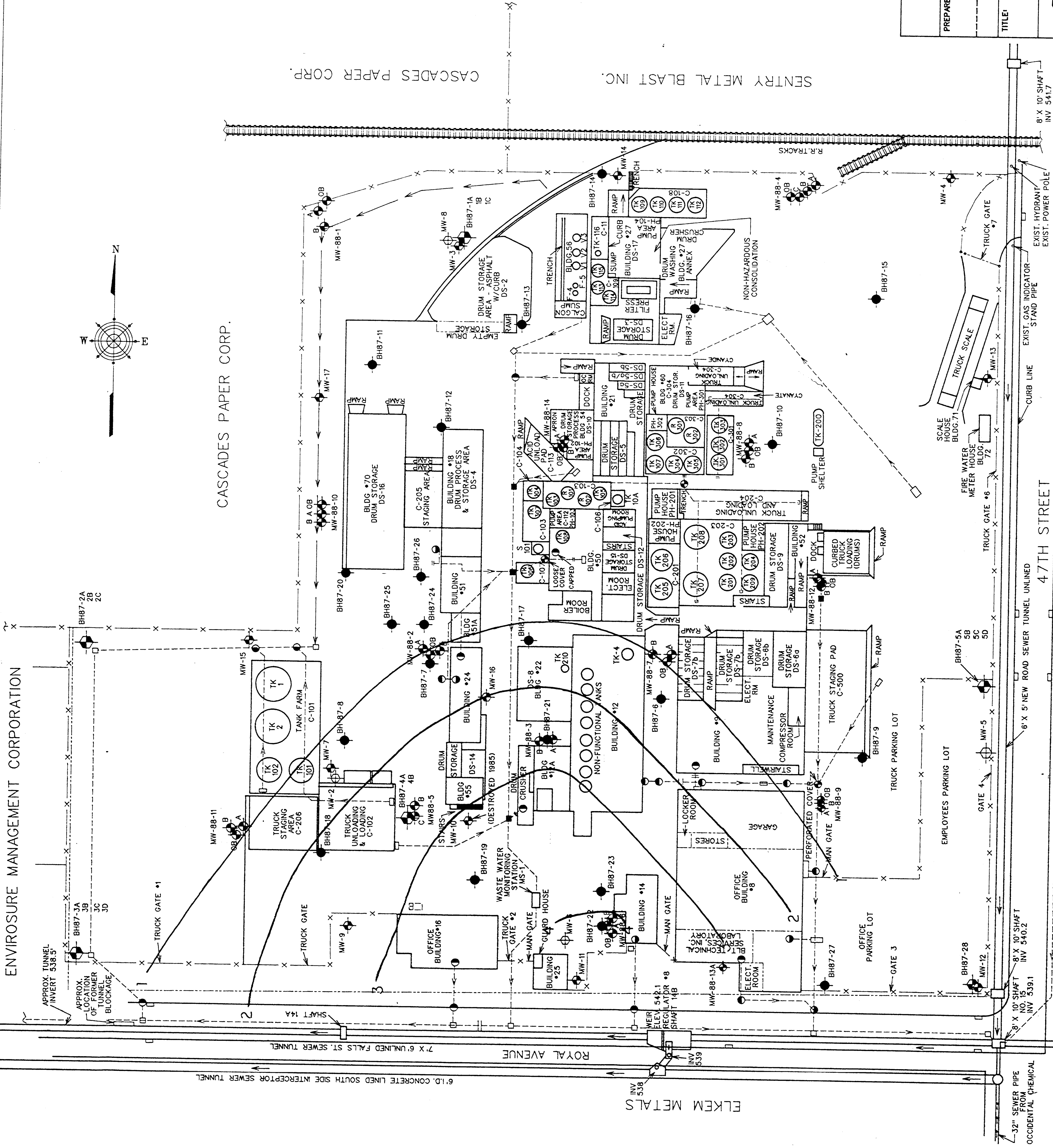
PROJECT No. 88-04ISC  
DRAWING No.1

SUITE 704; BRISBANE BUILDING  
BUFFALO, NEW YORK 14203

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ENVIROSURE MANAGEMENT CORPORATION



LEGEND

BOREHOLE AND MONITORING WELL INSTALLATIONS

- MW-88-1A,B,C,OB NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- BH87-2A,2B,2C NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- MW-11 SINGLE BEDROCK MONITORING WELL
- MW-8 SINGLE OVERBURDEN MONITORING WELL
- BH87-5 OVA BOREHOLE GROUTED TO SURFACE ON COMPLETION

1988 INVESTIGATIONS BY ECCO, INC. INCLUDES BOREHOLES MW-88-1 TO MW-88-14

1987 INVESTIGATIONS BY GOLDEN ASSOCIATES INCLUDES BOREHOLES 87-1 TO 87-28

1984-85 INVESTIGATIONS BY THOMSEN ASSOCIATES INCLUDES BOREHOLES MW-9 TO MW-17

1981 INVESTIGATIONS BY WEHRAN ENGINEERING INCLUDES BOREHOLES MW-1 TO MW-8

PLANT SITE DRAINAGE AND SEWER FACILITIES

- DRAINAGE SWALE
- ACTIVE SEWER LINE
- MANHOLE
- CONNECTION
- CATCH BASIN OR SUMP
- MANHOLE WITH GRATE TYPE COVER

| MONITORING WELL NO. | HYDROGEOLOGICAL ZONE | MONITORING WELL NO. | HYDROGEOLOGICAL ZONE |
|---------------------|----------------------|---------------------|----------------------|
| MW-2                | ZONE 1 (A FRACTURE)  | BH87-2A             | B FRACTURE           |
| MW-3                | ZONE 1 (A FRACTURE)  | BH87-2B             | ZONE 1 (A FRACTURE)  |
| MW-4                | ZONE 1 (A FRACTURE)  | BH87-2C             | OVERBURDEN           |
| MW-5                | OVERBURDEN           | BH87-3A             | B FRACTURE           |
| MW-6                | OVERBURDEN           | BH87-3B             | ZONE 1 (A FRACTURE)  |
| MW-7                | OVERBURDEN           | BH87-3C             | OVERBURDEN           |
| MW-8                | OVERBURDEN           | BH87-4A             | ZONE 1 (B FRACTURE)  |
| MW-9                | B FRACTURE           | BH87-4B             | ZONE 1 (A FRACTURE)  |
| MW-10               | ZONE 1 (A FRACTURE)  | BH87-4C             | OVERBURDEN           |
| MW-11               | ZONE 1 (A FRACTURE)  | BH87-5A             | B FRACTURE           |
| MW-12               | DESTROYED 1985       | BH87-5B             | ZONE 3 (C FRACTURE)  |
| MW-13               | B FRACTURE           | BH87-5C             | ZONE 1 (A FRACTURE)  |
| MW-14               | B FRACTURE           | BH87-5D             | OVERBURDEN           |
| MW-15               | ZONE 1 (A FRACTURE)  | BH87-28             | ZONE 1 (A FRACTURE)  |
| MW-16               | ZONE 1 (A FRACTURE)  | MW-88-4OB           | OVERBURDEN (TYPICAL) |
| MW-17               | ZONE 1 (A FRACTURE)  | MW-88-4A            | A FRACTURE (TYPICAL) |
| BH87-1A             | B FRACTURE           | MW-88-4B            | B FRACTURE (TYPICAL) |
| -1B                 | ZONE 1 (A FRACTURE)  | MW-88-4C            | C FRACTURE (TYPICAL) |
| -1C                 | OVERBURDEN           |                     |                      |

DRAFT

CONCENTRATION CONTOURS GROUP 1

B FRACTURE

PREPARED FOR: FRONTIER CHEMICAL WASTE PROCESS, INC.

4626 ROYAL AVENUE, NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

TITLE:

HYDROGEOLOGIC SITE INVESTIGATION PLAN

**ECCO** Inc.

THE ENVIRONMENTAL CONSULTING COMPANY

DATE: MARCH, 1989

SCALE: 1" = 40'

SUITE 704: BRISBANE BUILDING  
BUFFALO, NEW YORK 14203

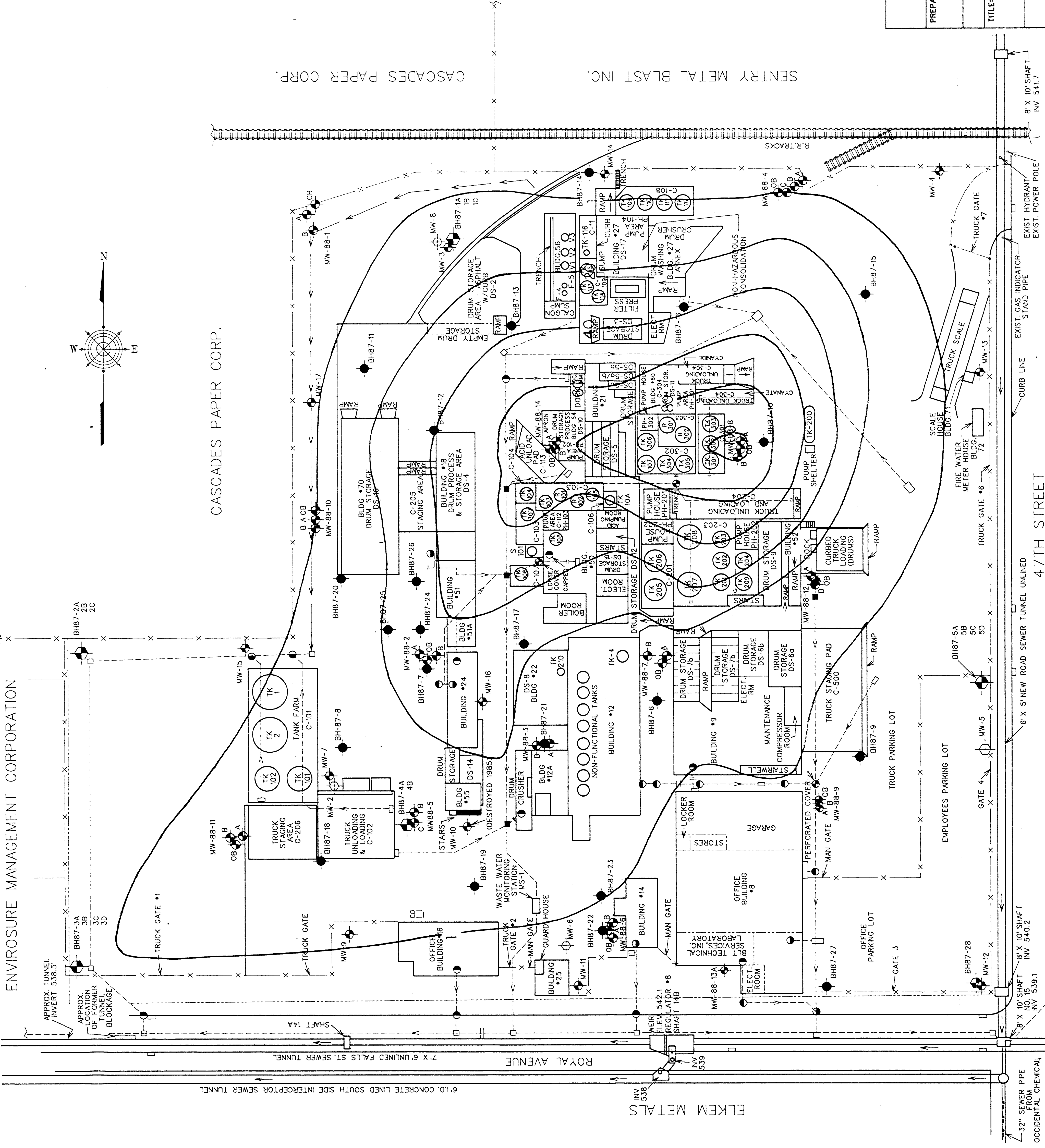
PROJECT No. 88-04/SC

DRAWING No. 1

27

UNION CARBIDE CORP.

ENVIROSURE MANAGEMENT CORPORATION



LEGEND

BOREHOLE AND MONITORING WELL INSTALLATIONS

- MW-88-4A,B,C,OB  
NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- BH87-2A,2B,2C  
NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- MW-11  
SINGLE BEDROCK MONITORING WELL
- MW-8  
SINGLE OVERBURDEN MONITORING WELL
- BH87-6  
OVA BOREHOLE GROUTED TO SURFACE ON COMPLETION

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INCLUDES BOREHOLES MW-88-1 TO MW-88-14

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INCLUDES BOREHOLES 87-1 TO 87-28

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INCLUDES BOREHOLES MW-9 TO MW-17

1981 INVESTIGATIONS BY WEHRAN ENGINEERING  
INCLUDES BOREHOLES MW-1 TO MW-8

PLANT SITE DRAINAGE AND SEWER FACILITIES

- DRAINAGE SWALE
- - - - - ACTIVE SEWER LINE
- MANHOLE
- CONNECTION
- CATCH BASIN OR SUMP
- MANHOLE WITH GRATE TYPE COVER

| MONITORING WELL NO. | HYDROGEOLOGICAL ZONE | MONITORING WELL NO. | HYDROGEOLOGICAL ZONE |
|---------------------|----------------------|---------------------|----------------------|
| MW-2                | ZONE 1 (A FRACTURE)  | BH87-2A             | B FRACTURE           |
| MW-3                | ZONE 1 (A FRACTURE)  | -2B                 | ZONE 1 (A FRACTURE)  |
| MW-4                | ZONE 1 (A FRACTURE)  | -2C                 | OVERBURDEN           |
| MW-5                | OVERBURDEN           | BH87-3A             | B FRACTURE           |
| MW-6                | OVERBURDEN           | -3B                 | ZONE 1 (A FRACTURE)  |
| MW-7                | OVERBURDEN           | -3C                 | OVERBURDEN           |
| MW-8                | OVERBURDEN           | -3D                 | ZONE 1 (B FRACTURE)  |
| MW-9                | B FRACTURE           | BH87-4A             | ZONE 1 (A FRACTURE)  |
| MW-10               | ZONE 1 (A FRACTURE)  | -4B                 | OVERBURDEN           |
| MW-11               | ZONE 1 (A FRACTURE)  | BH87-5A             | B FRACTURE           |
| MW-12               | B FRACTURE           | -5B                 | ZONE 3 (C FRACTURE)  |
| MW-13               | B FRACTURE           | -5C                 | ZONE 1 (A FRACTURE)  |
| MW-14               | B FRACTURE           | -5D                 | OVERBURDEN           |
| MW-15               | ZONE 1 (A FRACTURE)  | BH87-28             | ZONE 1 (A FRACTURE)  |
| MW-16               | ZONE 1 (A FRACTURE)  |                     |                      |
| MW-17               | ZONE 1 (A FRACTURE)  |                     |                      |
| BH87-1A             | B FRACTURE           | MW-88-4OB           | OVERBURDEN (TYPICAL) |
| -1B                 | ZONE 1 (A FRACTURE)  | MW-88-4A            | A FRACTURE (TYPICAL) |
| -1C                 | OVERBURDEN           | MW-88-4B            | B FRACTURE (TYPICAL) |
|                     |                      | MW-88-4C            | C FRACTURE (TYPICAL) |

DRAFT

CONCENTRATION CONTOURS  
OVERBURDEN  
GROUP II

PREPARED FOR:  
FRONTIER CHEMICAL WASTE PROCESS, INC.  
4626 ROYAL AVENUE, NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

TITLE:  
HYDROGEOLOGIC SITE INVESTIGATION PLAN

**ECCO** Inc.  
THE ENVIRONMENTAL  
CONSULTING  
COMPANY

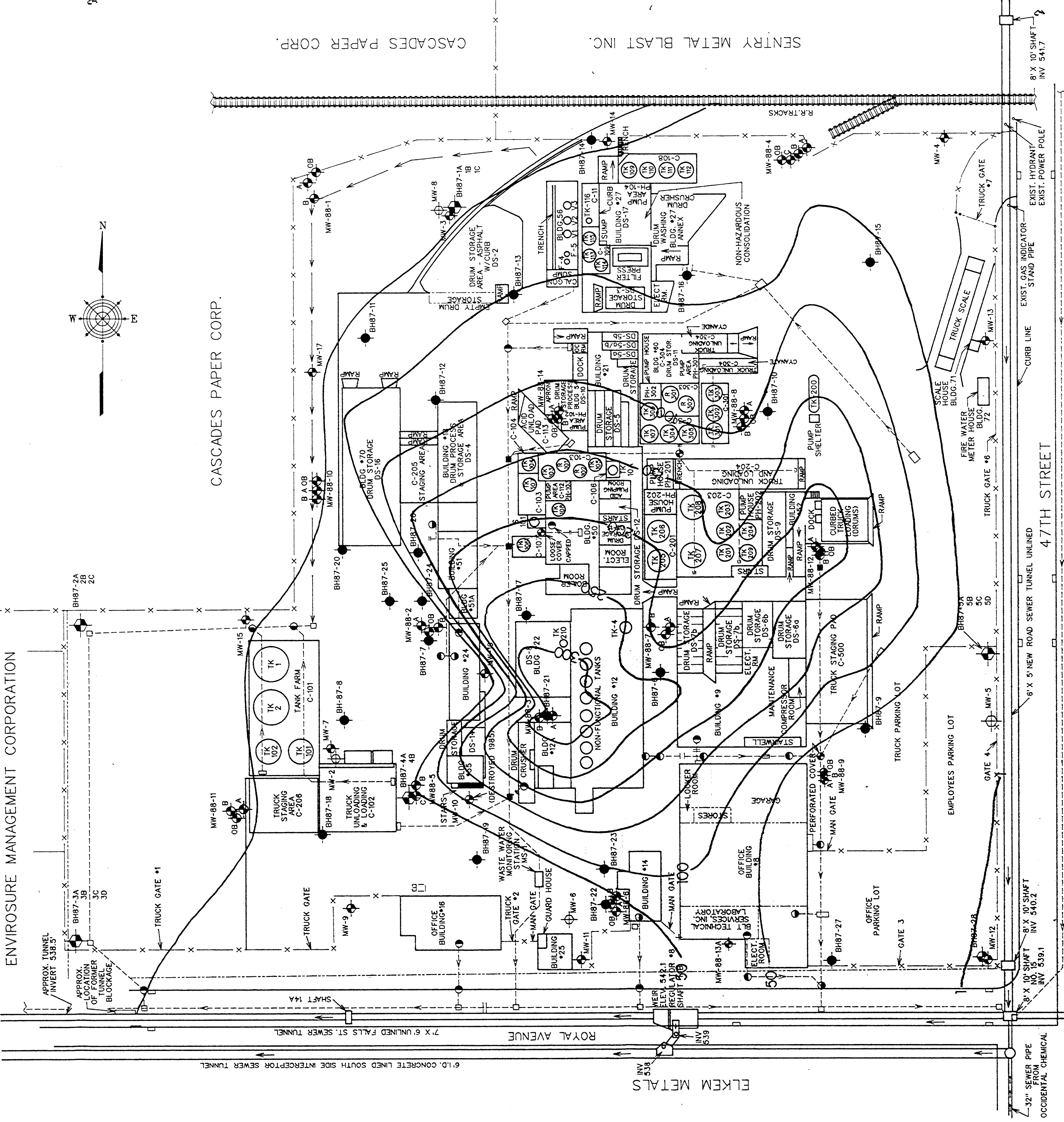
DATE: MARCH, 1989  
SCALE: 1" = 40'

SUITE 704: BRISBANE BUILDING  
BUFFALO, NEW YORK 14203

28

UNION CARBIDE CORP.

ENVIROSURE MANAGEMENT CORPORATION



LEGEND

BOREHOLE AND MONITORING WELL INSTALLATIONS

- MW-88-4A,B,C,OB  
NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- BH87-2A,2B,2C  
NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- MW-11  
SINGLE BEDROCK MONITORING WELL
- MW-9  
SINGLE OVERBURDEN MONITORING WELL
- BH87-6  
OVA BOREHOLE GROUTED TO SURFACE ON COMPLETION

1988 INVESTIGATIONS BY ECCO, INC.  
INCLUDES BOREHOLES MW-88-1 TO MW-88-14

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INCLUDES BOREHOLES 87-1 TO 87-28

1984-85 INVESTIGATIONS BY THOMSEN ASSOCIATES  
INCLUDES BOREHOLES MW-9 TO MW-17

1981 INVESTIGATIONS BY WEHRAN ENGINEERING  
INCLUDES BOREHOLES MW-1 TO MW-8

PLANT SITE DRAINAGE AND SEWER FACILITIES

- DRAINAGE SWALE
- - - ACTIVE SEWER LINE
- MANHOLE
- CONNECTION
- CATCH BASIN OR SUMP
- MANHOLE WITH GRATE TYPE COVER

| MONITORING WELL NO. | HYDROGEOLOGICAL ZONE | MONITORING WELL NO. | HYDROGEOLOGICAL ZONE |
|---------------------|----------------------|---------------------|----------------------|
| MW-2                | ZONE 1 (A FRACTURE)  | BH87-2A             | B FRACTURE           |
| MW-3                | ZONE 1 (A FRACTURE)  | -2B                 | ZONE 1 (A FRACTURE)  |
| MW-4                | ZONE 1 (A FRACTURE)  | BH87-3A             | OVERBURDEN           |
| MW-5                | OVERBURDEN           | -3B                 | B FRACTURE           |
| MW-6                | OVERBURDEN           | BH87-4A             | ZONE 1 (A FRACTURE)  |
| MW-7                | OVERBURDEN           | -4B                 | OVERBURDEN           |
| MW-8                | OVERBURDEN           | BH87-5A             | ZONE 1 (A FRACTURE)  |
| MW-9                | B FRACTURE           | -5B                 | OVERBURDEN           |
| MW-10               | ZONE 1 (A FRACTURE)  | BH87-6              | ZONE 3 (C FRACTURE)  |
| MW-11               | DESTROYED 1985       | -6B                 | OVERBURDEN           |
| MW-12               | B FRACTURE           | BH87-7A             | ZONE 1 (A FRACTURE)  |
| MW-13               | B FRACTURE           | -7B                 | OVERBURDEN           |
| MW-14               | ZONE 1 (A FRACTURE)  | BH87-8A             | OVERBURDEN (TYPICAL) |
| MW-15               | ZONE 1 (A FRACTURE)  | -8B                 | A FRACTURE (TYPICAL) |
| MW-16               | ZONE 1 (A FRACTURE)  | BH87-9A             | B FRACTURE (TYPICAL) |
| MW-17               | ZONE 1 (A FRACTURE)  | -9B                 | C FRACTURE (TYPICAL) |
| BH87-1A             | B FRACTURE           |                     |                      |
| -1B                 | ZONE 1 (A FRACTURE)  |                     |                      |
| -1C                 | OVERBURDEN           |                     |                      |

DRAFT

CONCENTRATION CONTOURS  
GROUP II

PREPARED FOR:  
FRONTIER CHEMICAL WASTE PROCESS, INC.  
4626 ROYAL AVENUE, NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

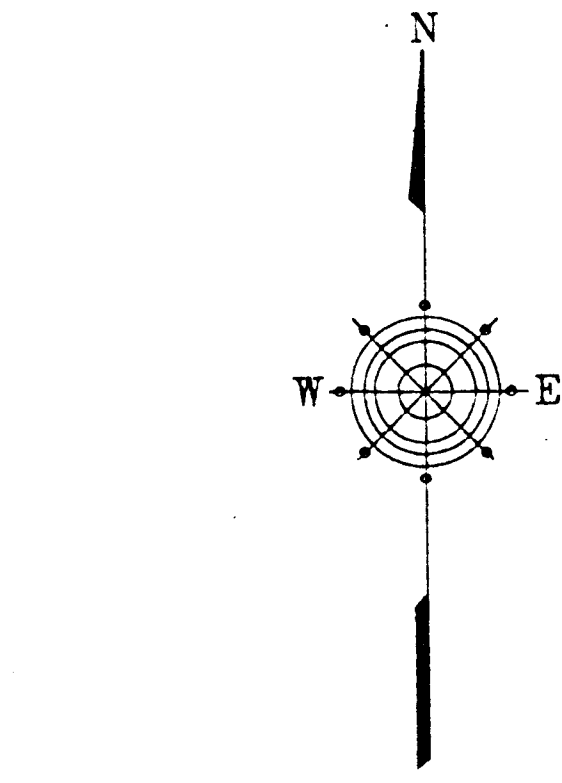
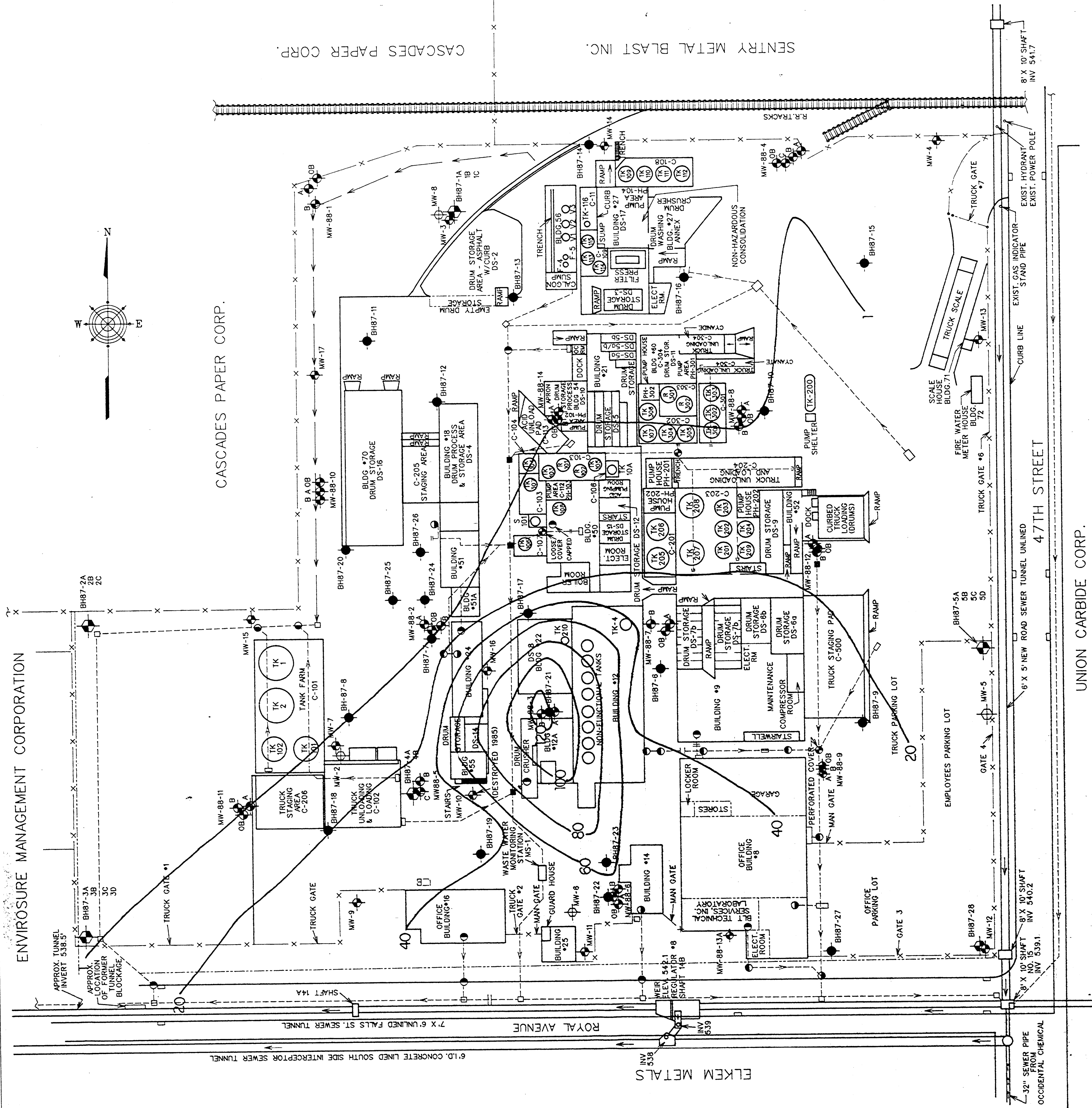
TITLE:  
HYDROGEOLOGIC SITE INVESTIGATION PLAN

**ECCO** Inc.  
THE ENVIRONMENTAL  
CONSULTING  
COMPANY

DATE: MARCH, 1989  
SCALE: 1" = 40'  
PROJECT No. 88-04ISC  
DRAWING No. 1  
SUITE 704; BRISBANE BUILDING  
BUFFALO, NEW YORK 14203

UNION CARBIDE CORP.

ENVIROSURE MANAGEMENT CORPORATION



LEGEND

BOREHOLE AND MONITORING WELL INSTALLATIONS

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NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- BH87-2A2B,2C  
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SINGLE BEDROCK MONITORING WELL
- MW-8  
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OVA BOREHOLE GROUTED TO SURFACE ON COMPLETION
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INCLUDES BOREHOLES 87-1 TO 87-28
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INCLUDES BOREHOLES MW-9 TO MW-17
- 1981 INVESTIGATIONS BY WEHRAN ENGINEERING  
INCLUDES BOREHOLES MW-1 TO MW-8

PLANT SITE DRAINAGE AND SEWER FACILITIES

- DRAINAGE SWALE
- - - ACTIVE SEWER LINE
- MANHOLE
- CONNECTION
- CATCH BASIN OR SUMP
- MANHOLE WITH GRATE TYPE COVER

| MONITORING WELL NO. | HYDROGEOLOGICAL ZONE | MONITORING WELL NO. | HYDROGEOLOGICAL ZONE |
|---------------------|----------------------|---------------------|----------------------|
| MW-2                | ZONE 1 (A FRACTURE)  | BH87-2A             | B FRACTURE           |
| MW-3                | ZONE 1 (A FRACTURE)  | -2B                 | ZONE 1 (A FRACTURE)  |
| MW-4                | ZONE 1 (A FRACTURE)  | -2C                 | OVERBURDEN           |
| MW-5                | OVERBURDEN           | BH87-3A             | B FRACTURE           |
| MW-6                | OVERBURDEN           | -3B                 | ZONE 1 (A FRACTURE)  |
| MW-7                | OVERBURDEN           | -3C                 | OVERBURDEN           |
| MW-8                | OVERBURDEN           | -3D                 | ZONE 1 (B FRACTURE)  |
| MW-9                | B FRACTURE           | BH87-4A             | ZONE 1 (A FRACTURE)  |
| MW-10               | ZONE 1 (A FRACTURE)  | -4B                 | OVERBURDEN           |
| MW-11               | (DESTROYED 1985)     | BH87-5A             | B FRACTURE           |
| MW-12               | B FRACTURE           | -5B                 | ZONE 3 (C FRACTURE)  |
| MW-13               | B FRACTURE           | -5C                 | ZONE 1 (A FRACTURE)  |
| MW-14               | ZONE 1 (A FRACTURE)  | -5D                 | OVERBURDEN           |
| MW-15               | ZONE 1 (A FRACTURE)  | BH87-28             | ZONE 1 (A FRACTURE)  |
| MW-16               | ZONE 1 (A FRACTURE)  | MW-88-4OB           | OVERBURDEN (TYPICAL) |
| MW-17               | ZONE 1 (A FRACTURE)  | MW-88-4A            | A FRACTURE (TYPICAL) |
| BH87-1A             | B FRACTURE           | MW-88-4B            | B FRACTURE (TYPICAL) |
| -1B                 | ZONE 1 (A FRACTURE)  | MW-88-4C            | C FRACTURE (TYPICAL) |
| -1C                 | OVERBURDEN           |                     |                      |

DRAFT

CONCENTRATION CONTOURS GROUP II

PREPARED FOR: B FRACTURE FRONTIER CHEMICAL WASTE PROCESS, INC.

4826 ROYAL AVENUE, NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

TITLE: HYDROGEOLOGIC SITE INVESTIGATION PLAN

**ECCO** Inc.  
THE ENVIRONMENTAL CONSULTING COMPANY

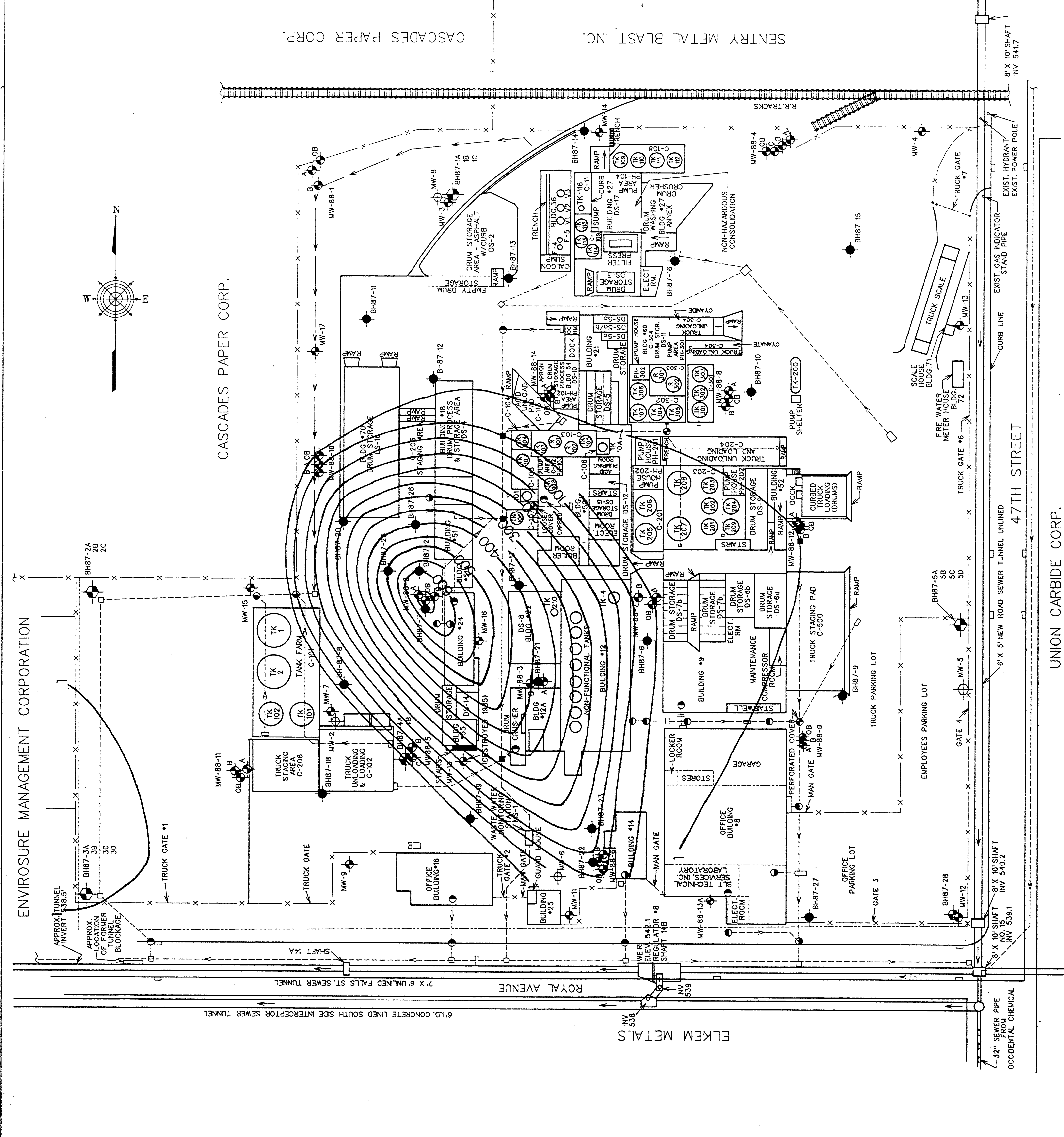
DATE: MARCH, 1989  
SCALE: 1" = 40'

SUITE 704; BRISBANE BUILDING  
BUFFALO, NEW YORK 14203

PROJECT No. 88-041SC  
DRAWING No. 1

30

ENVIROSURE MANAGEMENT CORPORATION



LEGEND

BOREHOLE AND MONITORING WELL INSTALLATIONS

- MW-88-4A,B,C,OB NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- BH87-2A,2B,2C NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- MW-11 SINGLE BEDROCK MONITORING WELL
- MW-8 SINGLE OVERBURDEN MONITORING WELL
- BH87-6 OVA BOREHOLE GROUTED TO SURFACE ON COMPLETION

1988 INVESTIGATIONS BY ECCO, INC.  
INCLUDES BOREHOLES MW-88-1 TO MW-88-14

1987 INVESTIGATIONS BY GOLDEN ASSOCIATES  
INCLUDES BOREHOLES 87-1 TO 87-28

1984-85 INVESTIGATIONS BY THOMSEN ASSOCIATES  
INCLUDES BOREHOLES MW-9 TO MW-17

1981 INVESTIGATIONS BY WEHRAN ENGINEERING  
INCLUDES BOREHOLES MW-1 TO MW-8

PLANT SITE DRAINAGE AND SEWER FACILITIES

- DRAINAGE SWALE
- - - ACTIVE SEWER LINE
- MANHOLE
- CONNECTION
- CATCH BASIN OR SUMP
- MANHOLE WITH GRATE TYPE COVER

| MONITORING WELL NO. | HYDROGEOLOGICAL ZONE | MONITORING WELL NO. | HYDROGEOLOGICAL ZONE |
|---------------------|----------------------|---------------------|----------------------|
| MW-2                | ZONE 1 (A FRACTURE)  | BH87-2A             | B FRACTURE           |
| MW-3                | ZONE 1 (A FRACTURE)  | -2B                 | ZONE 1 (A FRACTURE)  |
| MW-4                | ZONE 1 (A FRACTURE)  | -2C                 | OVERBURDEN           |
| MW-5                | OVERBURDEN           | BH87-3A             | B FRACTURE           |
| MW-6                | OVERBURDEN           | -3B                 | ZONE 1 (A FRACTURE)  |
| MW-7                | OVERBURDEN           | -3C                 | OVERBURDEN           |
| MW-8                | OVERBURDEN           | -3D                 | ZONE 1 (B FRACTURE)  |
| MW-9                | B FRACTURE           | BH87-4A             | ZONE 1 (A FRACTURE)  |
| MW-10               | ZONE 1 (A FRACTURE)  | -4B                 | OVERBURDEN           |
| MW-11               | (DESTROYED 1985)     | BH87-5A             | B FRACTURE           |
| MW-12               | B FRACTURE           | -5B                 | ZONE 3 (C FRACTURE)  |
| MW-13               | B FRACTURE           | -5C                 | ZONE 1 (A FRACTURE)  |
| MW-14               | ZONE 1 (A FRACTURE)  | -5D                 | OVERBURDEN           |
| MW-15               | ZONE 1 (A FRACTURE)  | BH87-28             | ZONE 1 (A FRACTURE)  |
| MW-16               | ZONE 1 (A FRACTURE)  | MW-88-4OB           | OVERBURDEN (TYPICAL) |
| MW-17               | ZONE 1 (A FRACTURE)  | MW-88-4A            | A FRACTURE (TYPICAL) |
|                     |                      | MW-88-4B            | B FRACTURE (TYPICAL) |
|                     |                      | MW-88-4C            | C FRACTURE (TYPICAL) |
| BH87-1A             | B FRACTURE           |                     |                      |
| -1B                 | ZONE 1 (A FRACTURE)  |                     |                      |
| -1C                 | OVERBURDEN           |                     |                      |

DRAFT

CONCENTRATION CONTOURS GROUP III

PREPARED FOR: FRONTIER CHEMICAL WASTE PROCESS, INC.

4626 ROYAL AVENUE, NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

TITLE: HYDROGEOLOGIC SITE INVESTIGATION PLAN

**ECCO** Inc.  
THE ENVIRONMENTAL CONSULTING COMPANY

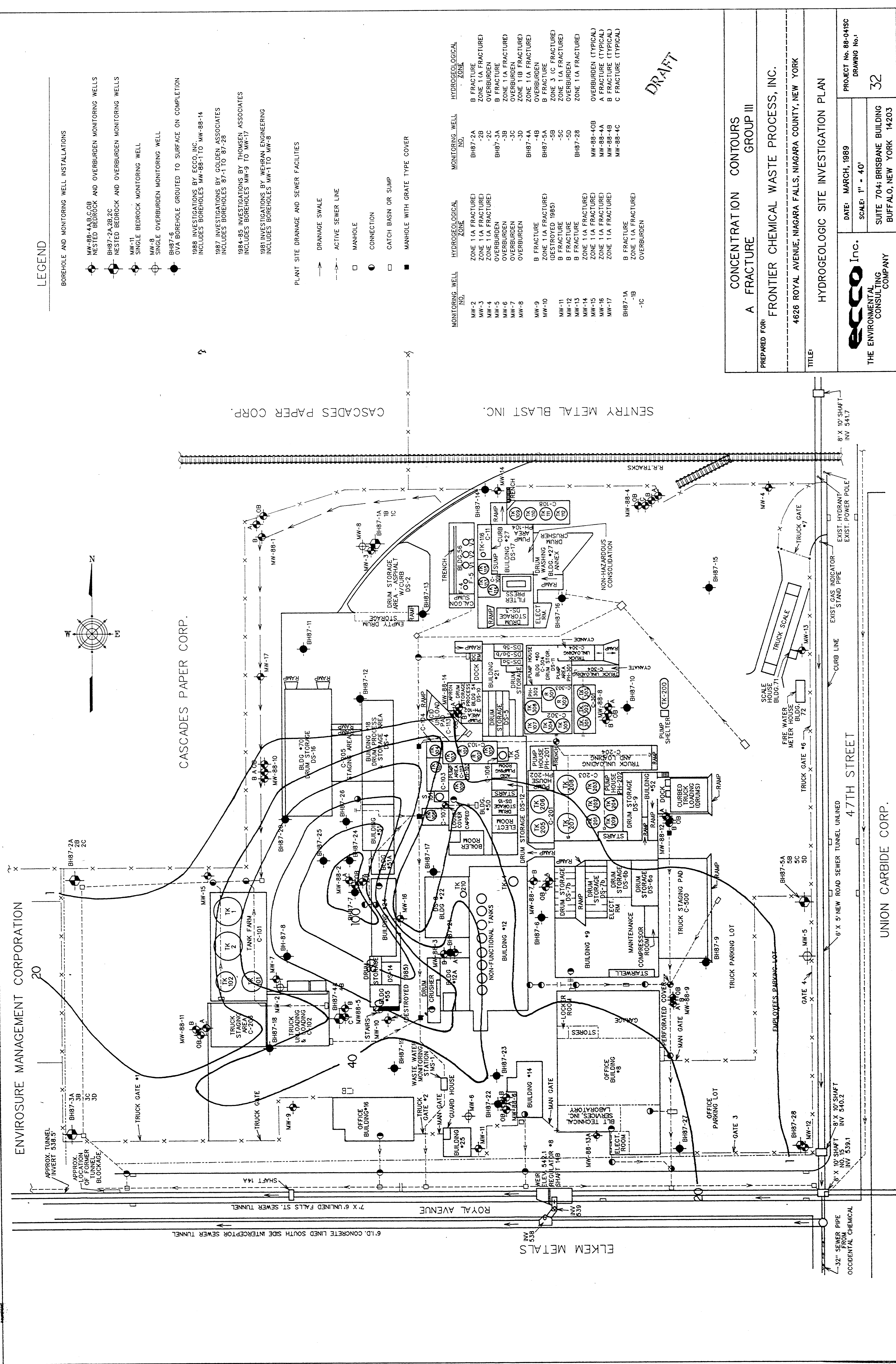
DATE: MARCH, 1989

SCALE: 1" = 40'

SUITE 704: BRISBANE BUILDING  
BUFFALO, NEW YORK 14203

PROJECT No. 88-04HSC  
DRAWING No. 1

31





ENVIROSURE MANAGEMENT CORPORATION

APPROX TUNNEL INVERT 538.5'

APPROX LOCATION OF FORMER BLOCKAGE

APPROX TUNNEL INVERT 538.5'

APPROX TUNNEL INVERT 538.5'

APPROX TUNNEL INVERT 538.5'

APPROX TUNNEL INVERT 538.5'

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APPROX TUNNEL INVERT 538.5'

APPROX TUNNEL INVERT 538.5'

LEGEND

BOREHOLE AND MONITORING WELL INSTALLATIONS

- MW-88-4A,B,C,OB
- NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- BH87-2A,2B,2C
- NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- MW-11
- SINGLE BEDROCK MONITORING WELL
- MW-8
- SINGLE OVERBURDEN MONITORING WELL
- BH87-6
- OVA BOREHOLE GROUTED TO SURFACE ON COMPLETION

1988 INVESTIGATIONS BY ECCO, INC.  
INCLUDES BOREHOLES MW-88-1 TO MW-88-14

1987 INVESTIGATIONS BY GOLDEN ASSOCIATES  
INCLUDES BOREHOLES 87-1 TO 87-28

1984-85 INVESTIGATIONS BY THOMSEN ASSOCIATES  
INCLUDES BOREHOLES MW-9 TO MW-17

1981 INVESTIGATIONS BY WEHRAN ENGINEERING  
INCLUDES BOREHOLES MW-1 TO MW-8

PLANT SITE DRAINAGE AND SEWER FACILITIES

- DRAINAGE SWALE
- ACTIVE SEWER LINE
- MANHOLE
- CONNECTION
- CATCH BASIN OR SUMP
- MANHOLE WITH GRATE TYPE COVER

| MONITORING WELL NO. | HYDROGEOLOGICAL ZONE | MONITORING WELL NO. | HYDROGEOLOGICAL ZONE |
|---------------------|----------------------|---------------------|----------------------|
| MW-2                | ZONE 1 (A FRACTURE)  | BH87-2A             | B FRACTURE           |
| MW-3                | ZONE 1 (A FRACTURE)  | MW-4                | ZONE 1 (A FRACTURE)  |
| MW-4                | ZONE 1 (A FRACTURE)  | MW-5                | OVERBURDEN           |
| MW-5                | OVERBURDEN           | MW-6                | ZONE 1 (A FRACTURE)  |
| MW-6                | OVERBURDEN           | MW-7                | OVERBURDEN           |
| MW-7                | OVERBURDEN           | MW-8                | ZONE 1 (B FRACTURE)  |
| MW-8                | OVERBURDEN           | MW-9                | ZONE 1 (A FRACTURE)  |
| MW-9                | B FRACTURE           | MW-10               | ZONE 1 (A FRACTURE)  |
| MW-10               | ZONE 1 (A FRACTURE)  | MW-11               | ZONE 3 (C FRACTURE)  |
| MW-11               | B FRACTURE           | MW-12               | ZONE 1 (A FRACTURE)  |
| MW-12               | B FRACTURE           | MW-13               | ZONE 1 (A FRACTURE)  |
| MW-13               | B FRACTURE           | MW-14               | ZONE 1 (A FRACTURE)  |
| MW-14               | ZONE 1 (A FRACTURE)  | MW-15               | ZONE 1 (A FRACTURE)  |
| MW-15               | ZONE 1 (A FRACTURE)  | MW-16               | ZONE 1 (A FRACTURE)  |
| MW-16               | ZONE 1 (A FRACTURE)  | MW-17               | ZONE 1 (A FRACTURE)  |
| MW-17               | ZONE 1 (A FRACTURE)  | BH87-1A             | B FRACTURE           |
| BH87-1A             | B FRACTURE           | -1B                 | OVERBURDEN           |
| -1B                 | OVERBURDEN           | -1C                 | OVERBURDEN           |

DRAFT

CONCENTRATION CONTOURS GROUP IV

PREPARED FOR: FRONTIER CHEMICAL WASTE PROCESS, INC.

4626 ROYAL AVENUE, NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

TITLE: HYDROGEOLOGIC SITE INVESTIGATION PLAN

**ECCO** Inc.  
THE ENVIRONMENTAL CONSULTING COMPANY

DATE: MARCH, 1989

SCALE: 1" = 40'

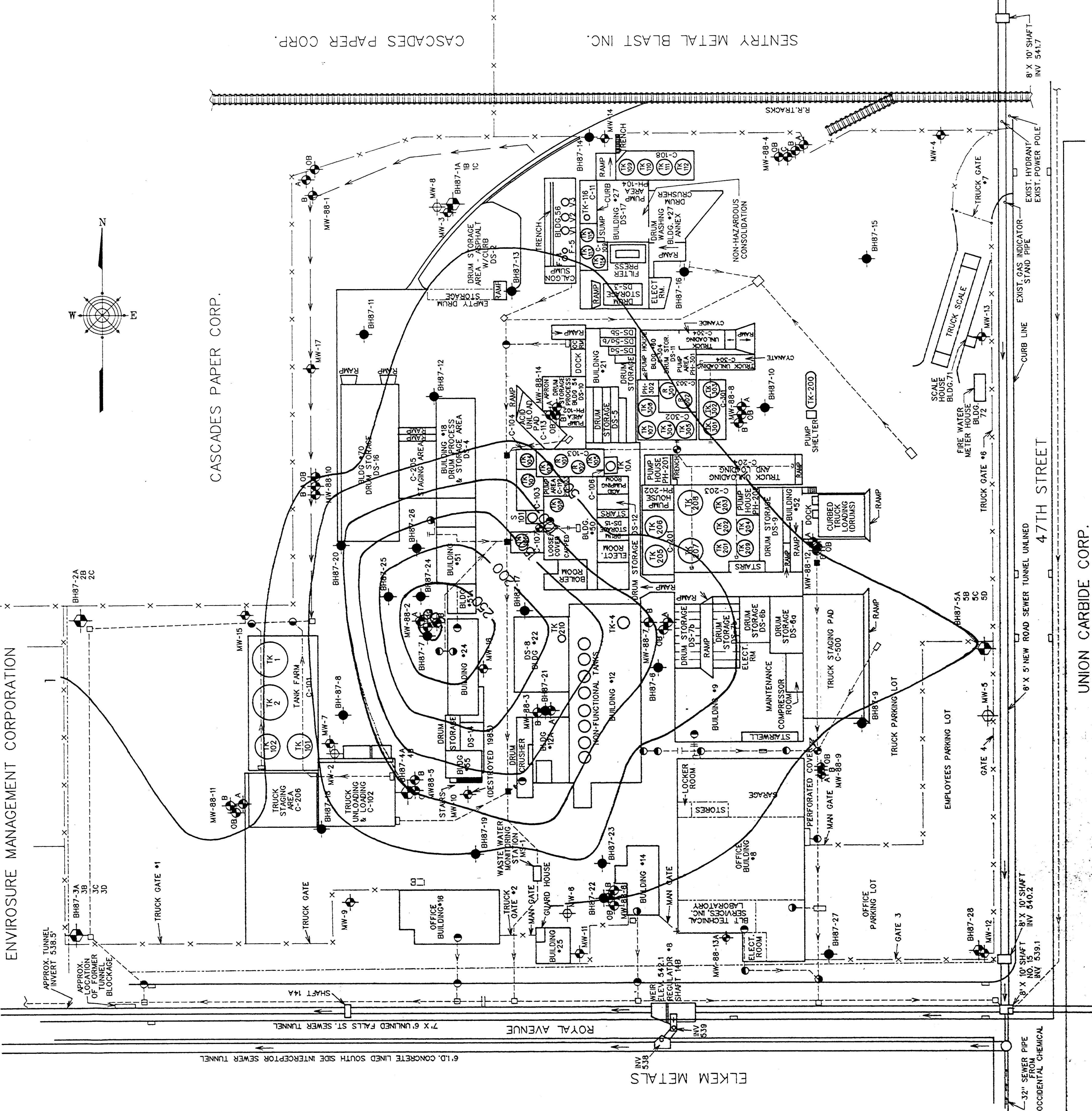
SUITE 704; BRISBANE BUILDING  
BUFFALO, NEW YORK 14203

PROJECT No. 88-04ISC

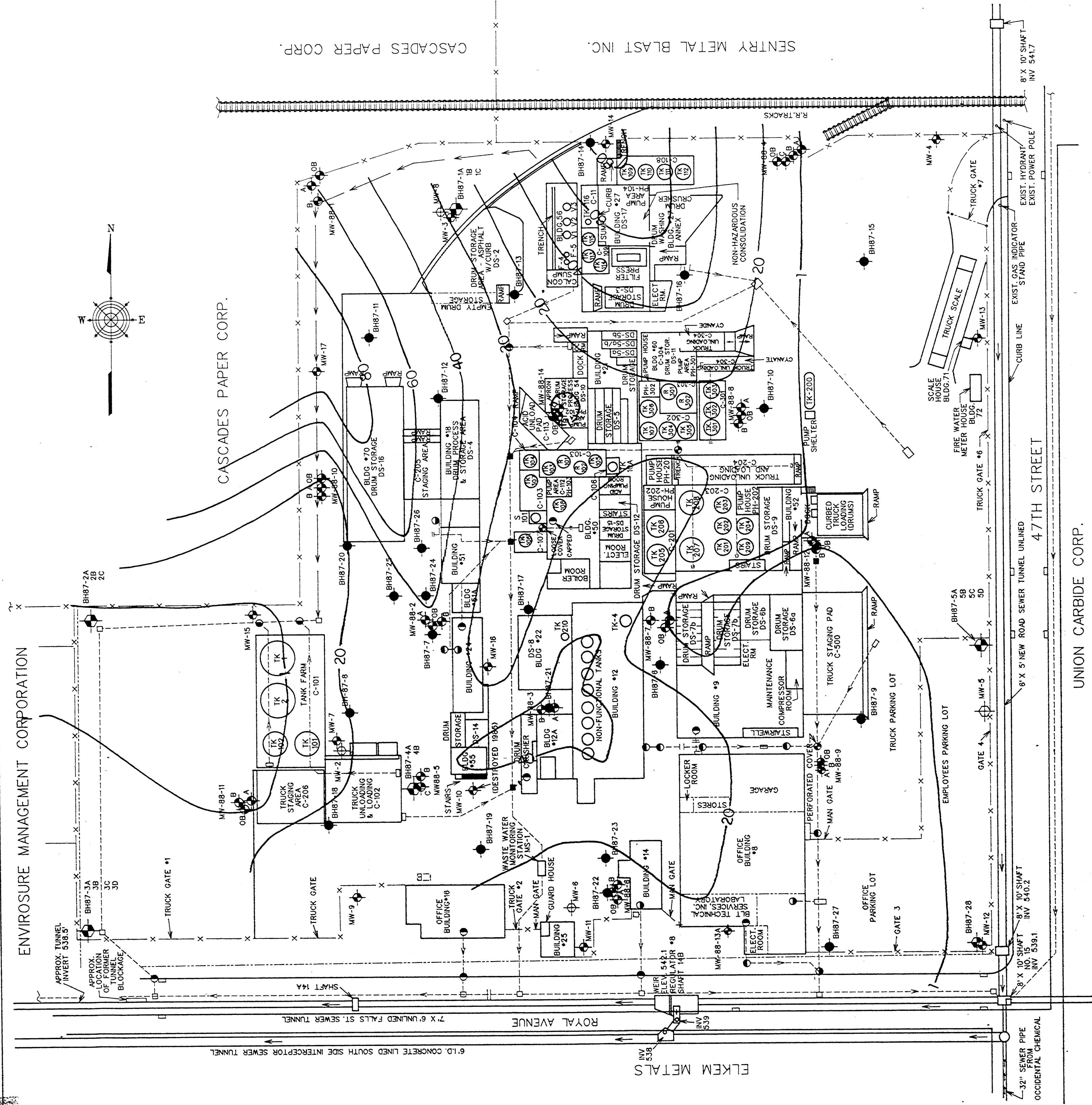
DRAWING No. 1

34

UNION CARBIDE CORP.



ENVIROSURE MANAGEMENT CORPORATION



LEGEND

BOREHOLE AND MONITORING WELL INSTALLATIONS

- MW-88-4A,B,C,OB  
NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- BH87-2A,2B,2C  
NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- MW-11  
SINGLE BEDROCK MONITORING WELL
- MW-8  
SINGLE OVERBURDEN MONITORING WELL
- BH87-5  
OVA BOREHOLE GROUTED TO SURFACE ON COMPLETION
- 1988 INVESTIGATIONS BY ECCO INC.  
INCLUDES BOREHOLES MW-88-1 TO MW-88-14
- 1987 INVESTIGATIONS BY GOLDEN ASSOCIATES  
INCLUDES BOREHOLES 87-1 TO 87-28
- 1984-85 INVESTIGATIONS BY THOMSEN ASSOCIATES  
INCLUDES BOREHOLES MW-9 TO MW-17
- 1981 INVESTIGATIONS BY WEHRAN ENGINEERING  
INCLUDES BOREHOLES MW-1 TO MW-8

PLANT SITE DRAINAGE AND SEWER FACILITIES

- > DRAINAGE SWALE
- - -> ACTIVE SEWER LINE
- MANHOLE
- CONNECTION
- CATCH BASIN OR PUMP
- MANHOLE WITH GRATE TYPE COVER

| MONITORING WELL NO. | HYDROGEOLOGICAL ZONE | MONITORING WELL NO. | HYDROGEOLOGICAL ZONE |
|---------------------|----------------------|---------------------|----------------------|
| MW-2                | ZONE 1 (A FRACTURE)  | BH87-2A             | B FRACTURE           |
| MW-3                | ZONE 1 (A FRACTURE)  | BH87-2B             | ZONE 1 (A FRACTURE)  |
| MW-4                | OVERBURDEN           | BH87-2C             | OVERBURDEN           |
| MW-5                | OVERBURDEN           | BH87-3A             | B FRACTURE           |
| MW-6                | OVERBURDEN           | BH87-3B             | ZONE 1 (A FRACTURE)  |
| MW-7                | OVERBURDEN           | BH87-3C             | OVERBURDEN           |
| MW-8                | OVERBURDEN           | BH87-4A             | ZONE 1 (B FRACTURE)  |
| MW-9                | B FRACTURE           | BH87-4B             | OVERBURDEN           |
| MW-10               | ZONE 1 (A FRACTURE)  | BH87-5A             | B FRACTURE           |
| MW-11               | (DESTROYED 1985)     | BH87-5B             | ZONE 3 (C FRACTURE)  |
| MW-12               | B FRACTURE           | BH87-5C             | ZONE 1 (A FRACTURE)  |
| MW-13               | B FRACTURE           | BH87-5D             | OVERBURDEN           |
| MW-14               | ZONE 1 (A FRACTURE)  | BH87-28             | ZONE 1 (A FRACTURE)  |
| MW-15               | ZONE 1 (A FRACTURE)  | MW-88-4OB           | OVERBURDEN (TYPICAL) |
| MW-16               | ZONE 1 (A FRACTURE)  | MW-88-4A            | A FRACTURE (TYPICAL) |
| MW-17               | ZONE 1 (A FRACTURE)  | MW-88-4B            | B FRACTURE (TYPICAL) |
| BH87-1A             | B FRACTURE           | MW-88-4C            | C FRACTURE (TYPICAL) |
| BH87-1B             | OVERBURDEN           |                     |                      |
| BH87-1C             |                      |                     |                      |

DRAFT

CONCENTRATION CONTOURS  
GROUP IV  
A FRACTURE  
PREPARED FOR:  
FRONTIER CHEMICAL WASTE PROCESS, INC.  
4626 ROYAL AVENUE, NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

TITLE:  
HYDROGEOLOGIC SITE INVESTIGATION PLAN

**ECCO** Inc.  
THE ENVIRONMENTAL CONSULTING COMPANY

DATE: MARCH, 1989  
SCALE: 1" = 40'

SUITE 704: BRISBANE BUILDING  
BUFFALO, NEW YORK 14203

47TH STREET

UNION CARBIDE CORP.

32" SEWER PIPE  
NO. 15  
INV 539.1

8' X 10' SHAFT  
NO. 15  
INV 540.2

8' X 5' NEW ROAD SEWER TUNNEL UNLINED

TRUCK SCALE  
HOUSE, BLDG 71

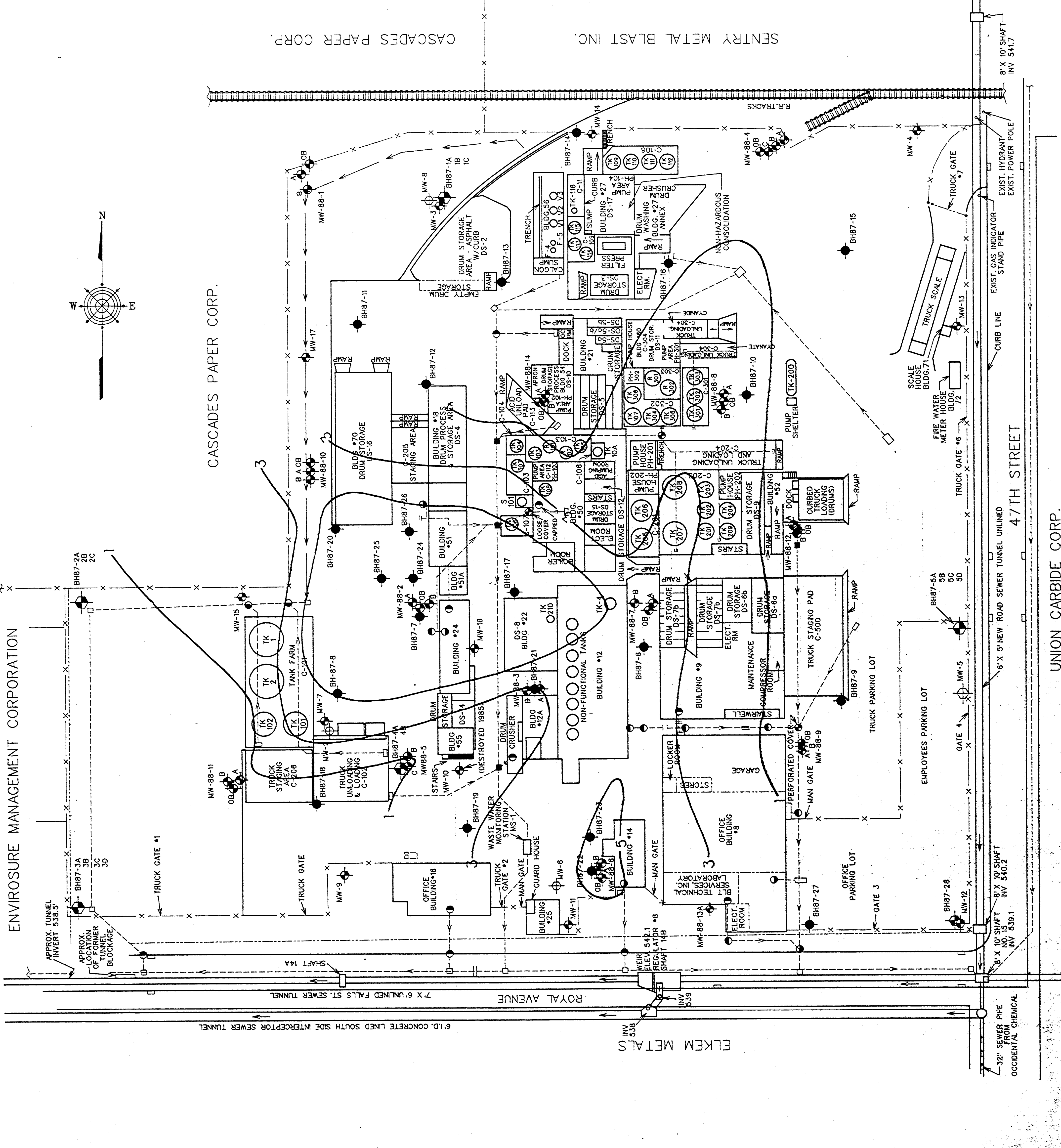
EXIST. HYDRANT  
EXIST. POWER POLE

8' X 10' SHAFT  
INV 541.7

TRUCK GATE #7



ENVIROSURE MANAGEMENT CORPORATION



LEGEND

BOREHOLE AND MONITORING WELL INSTALLATIONS

- MW-88-1A,B,C,OB  
NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- BH87-2A,2B,2C  
NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- MW-11  
SINGLE BEDROCK MONITORING WELL
- MW-8  
SINGLE OVERBURDEN MONITORING WELL
- BH87-6  
OVA BOREHOLE GROUTED TO SURFACE ON COMPLETION

1988 INVESTIGATIONS BY ECCO, INC.  
INCLUDES BOREHOLES MW-88-1 TO MW-88-14

1987 INVESTIGATIONS BY GOLDEN ASSOCIATES  
INCLUDES BOREHOLES 87-1 TO 87-28

1984-85 INVESTIGATIONS BY THOMSEN ASSOCIATES  
INCLUDES BOREHOLES MW-9 TO MW-17

1981 INVESTIGATIONS BY WEHRAN ENGINEERING  
INCLUDES BOREHOLES MW-1 TO MW-8

PLANT SITE DRAINAGE AND SEWER FACILITIES

- DRAINAGE SWALE
- - - ACTIVE SEWER LINE
- MANHOLE
- CONNECTION
- CATCH BASIN OR SUMP
- MANHOLE WITH GRATE TYPE COVER

| MONITORING WELL NO. | HYDROGEOLOGICAL ZONE | MONITORING WELL NO. | HYDROGEOLOGICAL ZONE |
|---------------------|----------------------|---------------------|----------------------|
| MW-2                | ZONE 1 (A FRACTURE)  | BH87-2A             | B FRACTURE           |
| MW-3                | ZONE 1 (A FRACTURE)  | -2B                 | ZONE 1 (A FRACTURE)  |
| MW-4                | ZONE 1 (A FRACTURE)  | -2C                 | OVERBURDEN           |
| MW-5                | OVERBURDEN           | BH87-3A             | B FRACTURE           |
| MW-6                | OVERBURDEN           | -3B                 | ZONE 1 (A FRACTURE)  |
| MW-7                | OVERBURDEN           | -3C                 | OVERBURDEN           |
| MW-8                | OVERBURDEN           | -3D                 | ZONE 1 (B FRACTURE)  |
| MW-9                | B FRACTURE           | BH87-4A             | ZONE 1 (A FRACTURE)  |
| MW-10               | ZONE 1 (A FRACTURE)  | -4B                 | OVERBURDEN           |
| MW-11               | (DESTROYED 1985)     | BH87-5A             | B FRACTURE           |
| MW-12               | B FRACTURE           | -5B                 | ZONE 3 (C FRACTURE)  |
| MW-13               | B FRACTURE           | -5C                 | ZONE 1 (A FRACTURE)  |
| MW-14               | B FRACTURE           | -5D                 | OVERBURDEN           |
| MW-15               | ZONE 1 (A FRACTURE)  | BH87-28             | ZONE 1 (A FRACTURE)  |
| MW-16               | ZONE 1 (A FRACTURE)  | MW-88-40B           | OVERBURDEN (TYPICAL) |
| MW-17               | ZONE 1 (A FRACTURE)  | MW-88-4A            | A FRACTURE (TYPICAL) |
| BH87-1A             | B FRACTURE           | MW-88-4B            | B FRACTURE (TYPICAL) |
| -1B                 | ZONE 1 (A FRACTURE)  | MW-88-4C            | C FRACTURE (TYPICAL) |
| -1C                 | OVERBURDEN           |                     |                      |

DRAFT

CONCENTRATION CONTOURS  
OVERBURDEN GROUP V

PREPARED FOR: FRONTIER CHEMICAL WASTE PROCESS, INC.

4626 ROYAL AVENUE, NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

TITLE:

HYDROGEOLOGIC SITE INVESTIGATION PLAN

**ECCO** Inc.  
THE ENVIRONMENTAL CONSULTING COMPANY

DATE: MARCH, 1989

SCALE: 1" = 40'

SUITE 704; BRISBANE BUILDING  
BUFFALO, NEW YORK 14203

PROJECT No. 88-04ISC  
DRAWING No.1

37

UNION CARBIDE CORP.

CT CT CT CT CT

1

041SC





ENVIROSURE MANAGEMENT CORPORATION

LEGEND

BOREHOLE AND MONITORING WELL INSTALLATIONS

- MW-88-1A,B,C,OB NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- BH87-2A,2B,2C NESTED BEDROCK AND OVERBURDEN MONITORING WELLS
- MW-11 SINGLE BEDROCK MONITORING WELL
- MW-8 SINGLE OVERBURDEN MONITORING WELL
- BH87-6 OVA BOREHOLE GROUTED TO SURFACE ON COMPLETION

- 1988 INVESTIGATIONS BY ECCO, INC. INCLUDES BOREHOLES MW-88-1 TO MW-88-14
- 1987 INVESTIGATIONS BY GOLDEN ASSOCIATES INCLUDES BOREHOLES 87-1 TO 87-28
- 1984-85 INVESTIGATIONS BY THOMSEN ASSOCIATES INCLUDES BOREHOLES MW-9 TO MW-17
- 1981 INVESTIGATIONS BY WEHRAN ENGINEERING INCLUDES BOREHOLES MW-1 TO MW-8

PLANT SITE DRAINAGE AND SEWER FACILITIES

- DRAINAGE SWALE
- - - - - ACTIVE SEWER LINE
- MANHOLE
- CONNECTION
- CATCH BASIN OR SUMP
- MANHOLE WITH GRATE TYPE COVER

| MONITORING WELL NO. | HYDROGEOLOGICAL ZONE | MONITORING WELL NO. | HYDROGEOLOGICAL ZONE |
|---------------------|----------------------|---------------------|----------------------|
| MW-2                | ZONE 1 (A FRACTURE)  | BH87-2A             | B FRACTURE           |
| MW-3                | ZONE 1 (A FRACTURE)  | BH87-2B             | ZONE 1 (A FRACTURE)  |
| MW-4                | ZONE 1 (A FRACTURE)  | BH87-2C             | OVERBURDEN           |
| MW-5                | OVERBURDEN           | BH87-3A             | B FRACTURE           |
| MW-6                | OVERBURDEN           | BH87-3B             | ZONE 1 (A FRACTURE)  |
| MW-7                | OVERBURDEN           | BH87-3C             | OVERBURDEN           |
| MW-8                | OVERBURDEN           | BH87-3D             | ZONE 1 (B FRACTURE)  |
| MW-9                | B FRACTURE           | BH87-4A             | ZONE 1 (A FRACTURE)  |
| MW-10               | ZONE 1 (A FRACTURE)  | BH87-4B             | OVERBURDEN           |
| MW-11               | DESTROYED 1985       | BH87-5A             | B FRACTURE           |
| MW-12               | B FRACTURE           | BH87-5B             | ZONE 3 (C FRACTURE)  |
| MW-13               | B FRACTURE           | BH87-5C             | ZONE 1 (A FRACTURE)  |
| MW-14               | B FRACTURE           | BH87-5D             | OVERBURDEN           |
| MW-15               | ZONE 1 (A FRACTURE)  | BH87-28             | ZONE 1 (A FRACTURE)  |
| MW-16               | ZONE 1 (A FRACTURE)  | MW-88-4OB           | OVERBURDEN (TYPICAL) |
| MW-17               | ZONE 1 (A FRACTURE)  | MW-88-4A            | A FRACTURE (TYPICAL) |
| BH87-1A             | B FRACTURE           | MW-88-4B            | B FRACTURE (TYPICAL) |
| -1B                 | OVERBURDEN           | MW-88-4C            | C FRACTURE (TYPICAL) |
| -1C                 |                      |                     |                      |

DRAFT

OB, A, B FRACTURES  
CONCENTRATION CONTOURS  
TOTAL PHENOLICS

PREPARED FOR: FRONTIER CHEMICAL WASTE PROCESS, INC.

4626 ROYAL AVENUE, NIAGARA FALLS, NIAGARA COUNTY, NEW YORK

TITLE: HYDROGEOLOGIC SITE INVESTIGATION PLAN

**ecco** Inc.  
THE ENVIRONMENTAL  
CONSULTING  
COMPANY

DATE: MARCH, 1989

SCALE: 1" = 40'

SUITE 704; BRISBANE BUILDING  
BUFFALO, NEW YORK 14203

PROJECT No. 88-04ISC

DRAWING No.1

40

