



CBS CORPORATION
11 STANWIX STREET
PITTSBURGH, PENNSYLVANIA 15222-1384

JUN - 6

Via Certified Mail – Return Receipt Requested

June 5, 2000

Robert Schick, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

**Re: Monthly Progress Report, Order on Consent and Settlement Agreement
Index No. B9-0381-91-8, NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Schick:

On behalf of the Respondents, CBS Corporation (CBS) submits this monthly progress report to the New York State Department of Environmental Conservation (NYSDEC) pursuant to Paragraph III of the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, regarding NYSDEC Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This report covers Remedial Program activities during the time period of May 1 through May 31, 2000.

1. Actions Taken During Previous Month to Achieve Compliance

- A. On May 1, 2000, IT Corporation (IT) finalized and submitted to NYSDEC the *Overflow Parking Lot Tunnel Alignment Soil Evaluation and "B3-B25" Soils Remediation Work Plan*.
- B. On May 8, 2000, CBS requested NYSDEC assistance in securing needed access from R.J. Corman Railroad Company (Corman) needed for sediment removal from U-Crest Ditch. CBS had previously secured the necessary access from Veridian, Inc. and Luxury Lodgings, Inc.
- C. On May 9, 2000, CBS reached an agreement with Corman for the needed access for U-Crest Ditch sediment removal.
- D. On May 10, 2000, CBS submitted a monthly status report to NYSDEC. IT forwarded to NYSDEC data summary tables for sampling conducted in April 2000 under separate cover.

- E. Project progress meetings were held on May 11, May 18, and May 25, 2000. IT prepared and distributed minutes of the project progress meetings to NYSDEC, CBS, and the Niagara Frontier Transportation Authority.
- F. On May 31, 2000, CBS submitted to NYSDEC a revised project schedule reflecting delays in completing the permanent groundwater treatment plant.
- G. IT completed the validation of post-treatment soil sampling data in accordance with the *Remedial Action Plan* (RAP).
- H. IT conducted Underslab Remedial Work (USR) as follows:
 - (1) Completed the Overflow Parking Lot tunnel alignment soil borings;
 - (2) Dewatered the Mixing Room Tunnel and completed the removal of the Mixing Room Tunnel concrete and soils in accordance with the discussion with NYSDEC on May 5 2000 and the follow-up memorandum from IT to NYSDEC dated May 8, 2000;
 - (3) Removed "B3 - B25" soils, sumps, and piping; and
 - (4) Completed soil removal, pending results of confirmatory soil sampling, for designated area "USR 33."
- I. IT conducted activities related to groundwater remediation as follows:
 - (1) Installed a plug in the storm sewer line just west of manhole MH-001-10 (as discussed with NYSDEC during a previous project progress meeting;
 - (2) Conducted a repeat smoke tests after repairs were made on manhole MH-002-15; and
 - (3) Completed baseline groundwater sampling.
- J. During May 2000, IT monitored surface water inflows to the storm sewer system. From this monitoring, CBS and IT concluded that the storm sewer systems associated with Outfalls 002 and 003 have been effectively isolated. Inflow is still evident, apparently from improperly sealed roof leaders, in the storm sewers leading to Outfall 001.
- K. With respect to U-Crest Ditch sediment removal, IT began preparation work, including clearing (as needed) to access the ditch and construction of a mixing pad for sediment stabilization.

2. Results of Sampling and Tests and Other Data

A. IT is forwarding May 2000 sampling data to NYSDEC under separate cover.

3. Deliverables

A. No project deliverables were submitted during the May 2000 reporting period.

4. Actions Projected for Next Month

A. IT will continue Site remediation activities as follows:

- (1) Continue soil investigation and soil and waste removal from the underslab area, including the following:
 - USR-29 wastes contained in two concrete vaults;
 - USR-30, 31, and 32 soils; and
 - Additional "B3-B25" stained soils.
- (2) Seal identified on-slab roof leader leaks into the 001 storm sewer line between MH-001-006 and MH-001-09;
- (3) Install the drop inlet (catch basin) for the storm water swale along the southeastern portion of the Site;
- (4) Complete laboratory analysis of groundwater samples for the baseline groundwater characterization; and
- (5) Conduct sediment removal from U-Crest Ditch.

5. Progress and Schedule Report

A. Through the end of the May 2000 reporting period, work activities have been completed as follows:

- (1) Project Initiation Tasks - 100 percent;
- (2) Pre-Design Investigations - 100 percent;
- (3) Remedial Design - 100 percent;
- (4) Remedial Action - 94 percent; and
- (5) Operation and Maintenance - 0 percent.

Robert Schick, P.E.

June 5, 2000

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B. Attachment B provides a summary Gantt chart schedule that is being used by CBS to track progress.

C. No unresolved delays have been encountered.

6. Modifications to Work Plan

A. On May 31, 2000, CBS submitted to NYSDEC a revised project schedule reflecting delays in completing the permanent groundwater treatment plant. This schedule updates that provided in Appendix N of the RAP.

B. No other plan modifications were proposed or approved during the May 2000 reporting period.

7. Activities in Support of Citizens Participation Plan

A. No activities were undertaken in May 2000 in support of the Citizens Participation Program.

* * * *

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,



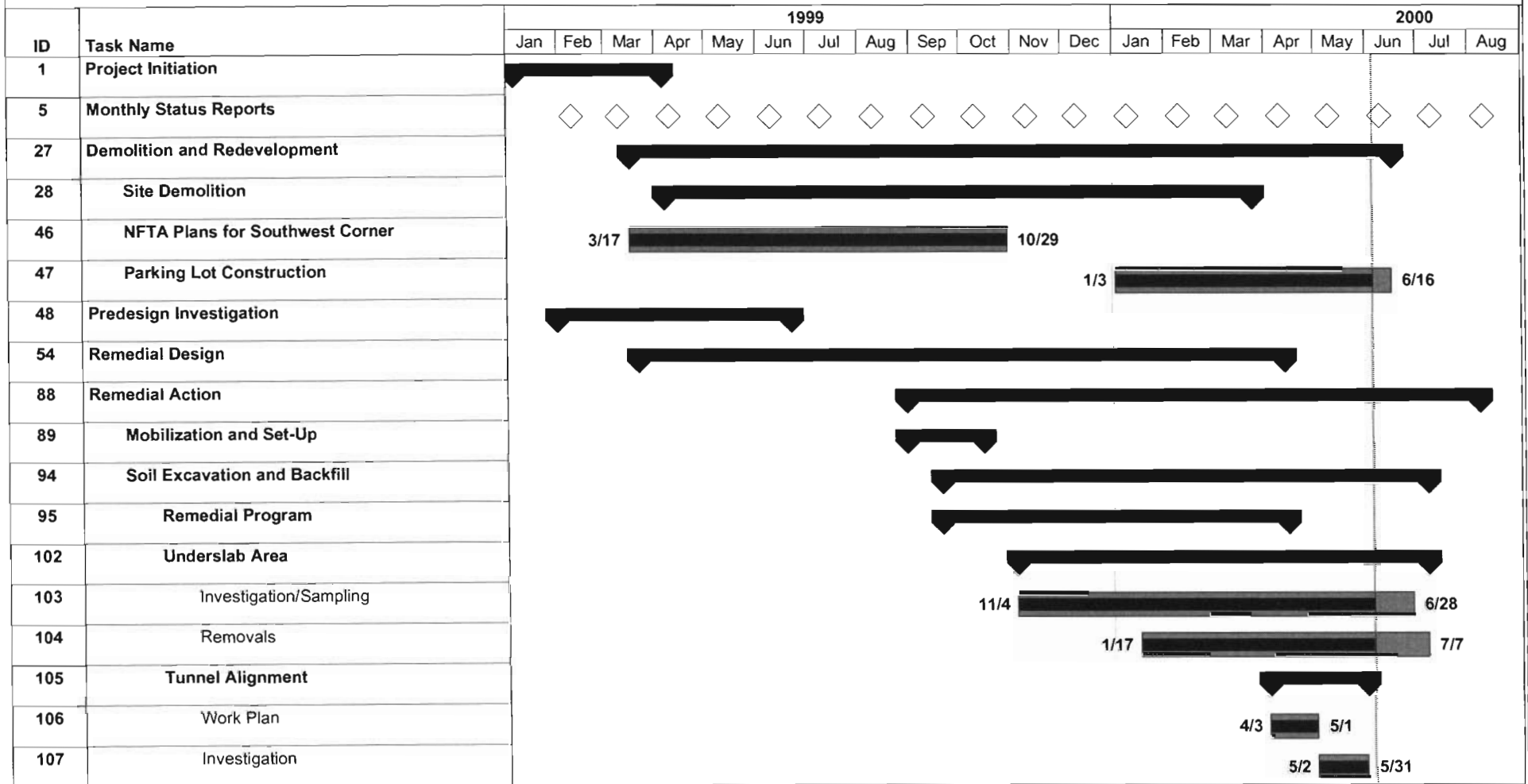
Leo M. Brausch
Consultant/Project Engineer

LMB:
Attachment

cc: Director, Bureau of Environmental Exposure Investigation
New York State Department of Health
Peter Buechi, P.E.
Gregory P. Sutton, P.E.
Joseph P. Ryan, Esquire
Harold Matuszak, NFTA
M. G. Graham, Esquire
L. M. Martin, IT

ATTACHMENT A
PROJECT WORKING SCHEDULE

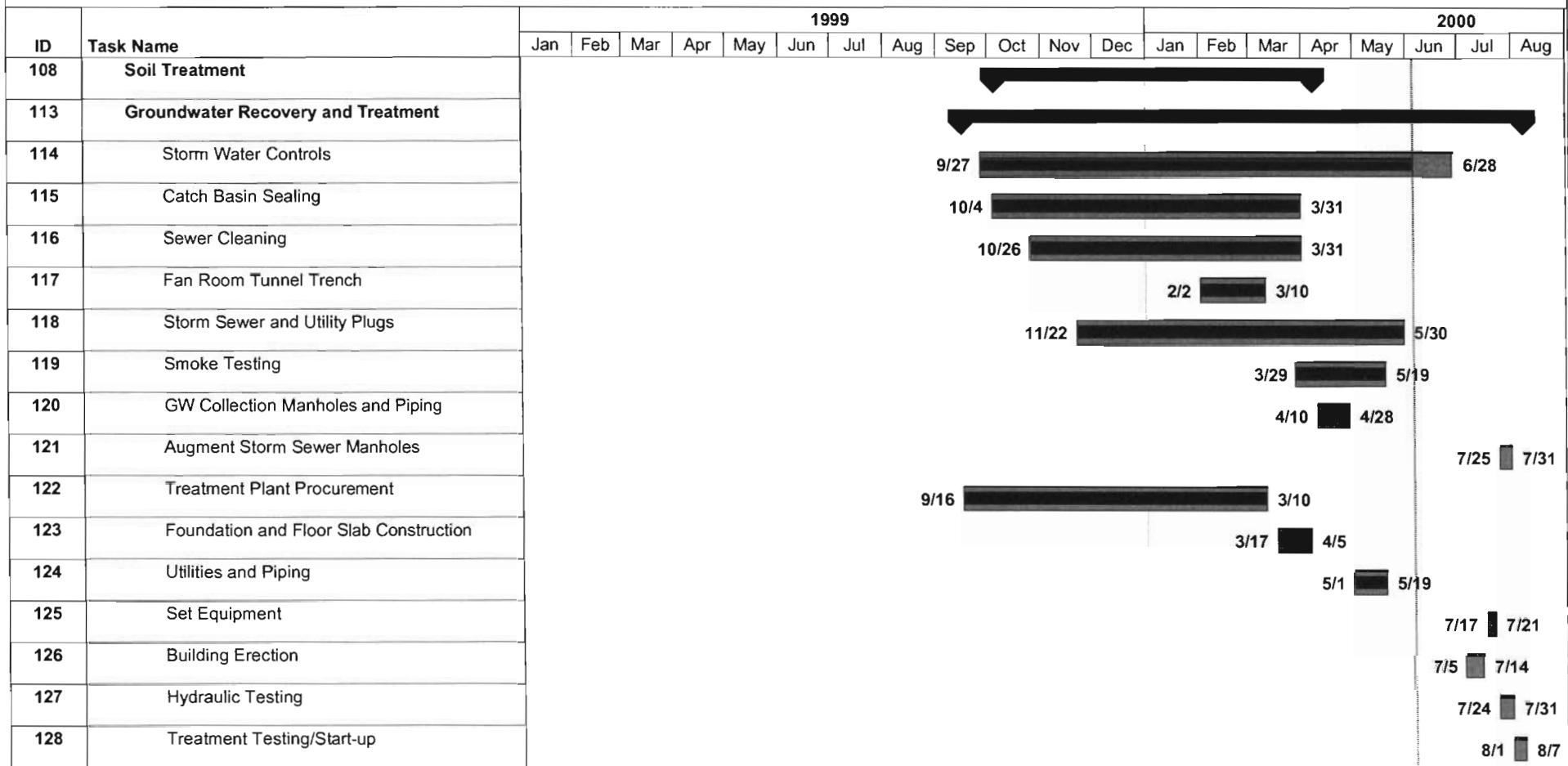
NYSDEC SITE 9-15-066 REMEDIAL DESIGN/REMEDIAL ACTION



Prepared by: L. M. Brausch
 Date: Mon 6/5/00
 File: RDRA Schedule

Task		Rolled Up Task		Project Summary	
Progress		Rolled Up Milestone	◇	Split
Milestone	◆	Rolled Up Progress		Rolled Up Split
Summary		External Tasks			

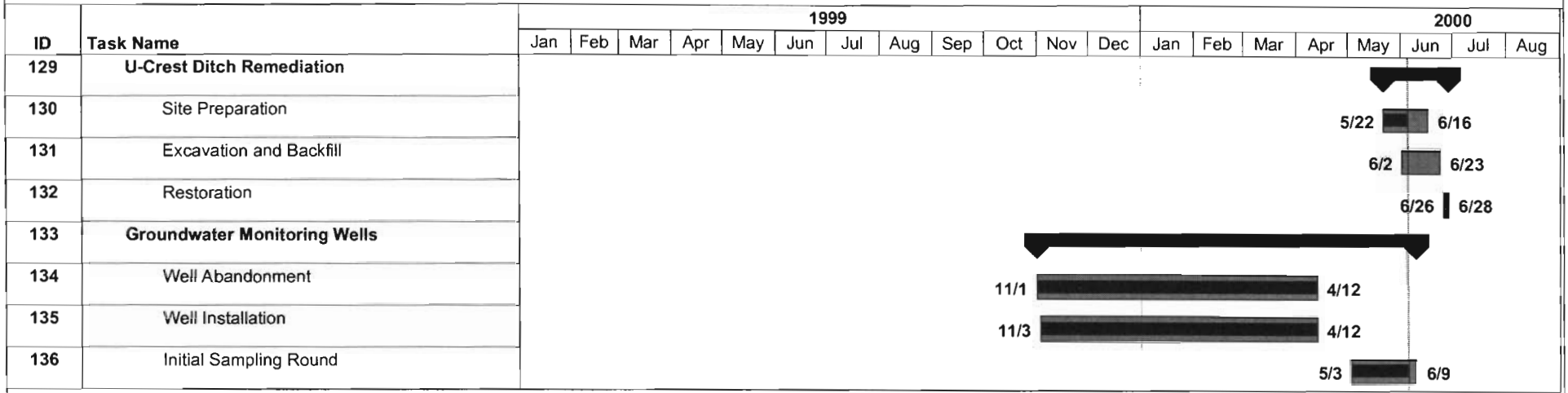
NYSDEC SITE 9-15-066 REMEDIAL DESIGN/REMEDIAL ACTION



Prepared by: L. M. Brausch
 Date: Mon 6/5/00
 File: RDRA Schedule

Task		Rolled Up Task		Project Summary	
Progress		Rolled Up Milestone		Split	
Milestone		Rolled Up Progress		Rolled Up Split	
Summary		External Tasks			

NYSDEC SITE 9-15-066 REMEDIAL DESIGN/REMEDIAL ACTION



Prepared by: L. M. Brausch Date: Mon 6/5/00 File: RDRA Schedule	Task		Rolled Up Task		Project Summary	
	Progress		Rolled Up Milestone		Split
	Milestone		Rolled Up Progress		Rolled Up Split
	Summary		External Tasks			



CBS CORPORATION
11 STANWIX STREET
PITTSBURGH, PENNSYLVANIA 15222-1384

Via Federal Express

July 10, 2000

Michael J. Ryan, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

**Re: Monthly Progress Report, Order on Consent and Settlement Agreement
Index No. B9-0381-91-8, NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Ryan:

On behalf of the Respondents, CBS Corporation (CBS) submits this monthly progress report to the New York State Department of Environmental Conservation (NYSDEC) pursuant to Paragraph III of the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, regarding NYSDEC Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This report covers Remedial Program activities during the time period of June 1 through June 30, 2000.

1. Actions Taken During Previous Month to Achieve Compliance

- A. On June 5, 2000, CBS submitted a monthly status report to NYSDEC. IT forwarded to NYSDEC data summary tables for sampling conducted in May 2000 under separate cover.
- B. Project progress meetings were held on June 8 and June 21, 2000. IT prepared and distributed minutes of the project progress meetings to NYSDEC, CBS, and the Niagara Frontier Transportation Authority (NFTA).
- C. With respect to the Underslab Remedial Work (USR), IT removed additional stained soils from the "B3 - B25" area and removed impacted soils and waste from the USR-30, USR-31, USR-32, and USR-33 areas.
- D. With respect to groundwater remediation, IT installed the effluent discharge line for the groundwater treatment plant and completed the sealing of roof leaders on the 001 line between MH-001-06 and MH001-09.

- E. IT completed the laboratory analyses and compiled the results of the initial (baseline) round of groundwater monitoring.
- F. IT removed impacted sediments from U-Crest Ditch and performed restoration of disturbed reaches of this ditch.
- G. IT began the demobilization of unnecessary equipment and personnel from the Site.

2. Results of Sampling and Tests and Other Data

- A. Attachment A provides a summary of the results of the initial round of groundwater monitoring from the nine wells specified in the "Groundwater Monitoring Plan" (*Final Remedial Action Plan*, Appendix J). Confirmatory soil sampling and air monitoring data are being forwarded to NYSDEC by IT under separate cover.

3. Deliverables

- A. No project deliverables were submitted during the June 2000 reporting period.

4. Actions Projected for Next Month

- A. IT will continue Site remediation activities as follows:
 - (1) Soil and waste removal from the underslab area, including the USR-29 wastes contained in two concrete vaults and USR-30, 31, and 32 soils.
 - (2) Endeavor to complete the installation of the permanent groundwater treatment plant, including associated utilities, pumps, and piping; and
 - (3) Augment storm sewer manholes.
- B. IT will continue to demobilize unneeded Site facilities that had been installed for remedial construction.
- C. IT will begin preparation of the final operation and maintenance manual for the remedial project.
- D. IT will begin preparation of the *Remedial Action Report*.

5. Progress and Schedule Report

- A. Through the end of the June 2000 reporting period, work activities have been completed with respect to project initiation tasks, pre-design investigations, and Remedial Design.
- B. Through the end of the June 2000 reporting period, Remedial Action has been completed as follows:
 - (1) On-site soil and sediment removal and treatment (areas identified in Record of Decision) – 100 percent;
 - (2) Groundwater remediation, including storm sewer system isolation and augmentation and installation of treatment facility – 90 percent;
 - (3) Removal and off-site disposal of impacted sediments from U-Crest Ditch – 90 percent;
 - (4) Removal and off-site disposal of impacted soils and wastes from the Underslab areas - 95 percent.
- C. Operation and maintenance of installed facilities has not yet been initiated.
- D. Attachment B provides a summary Gantt chart schedule that is being used by CBS to track progress.
- E. Progress on completing the permanent groundwater treatment building continued to be adversely impacted as a result of NFTA's architectural design and design changes to this structure.
- F. No other unresolved delays have been encountered.

6. Modifications to Work Plan

- A. On June 2, 2000, IT forwarded a letter to NYSDEC requesting that flyash be approved for use as the stabilizing agent for wet sediments excavated from U-Crest Ditch. Section 5.0 of Appendix D of the *Remedial Action Plan* specified the use of "Cement kiln dust or equal." NYSDEC subsequently approved this request via letter from NYSDEC dated June 8, 2000.
- B. Confirming discussions during the June 8, 2000 project progress meeting, IT sent a memorandum to NYSDEC on June 21, 2000 indicating that IT would not install the permanent storm water management components described in Section 4.0 of the *Remedial Action Plan*. The function of these components (i.e., drop

Michael J. Ryan, P.E.

July 10, 2000

Page 4

inlet and swale/berm) will be replaced by storm water management structure constructed by NFTA as part of its Site redevelopment work.

- C. On June 21, 2000, NYSDEC agreed to allow IT to suspend air monitoring during the final three days of removal of sediments at U-Crest Ditch because of the lack of detected constituents of concern in previously collected samples. IT is confirming this approval in writing.
- D. No other plan modifications were proposed or approved during the June 2000 reporting period.

7. Activities in Support of Citizens Participation Plan

- A. No activities were undertaken in June 2000 in support of the Citizens Participation Program.

* * * *

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:
Attachment

cc: Director, Bureau of Environmental Exposure Investigation
New York State Department of Health
Peter Buechi, P.E.
Gregory P. Sutton, P.E.
Joseph P. Ryan, Esquire
Harold Matuszak, NFTA
M. G. Graham, Esquire
L. M. Martin, IT

ATTACHMENT A
GROUNDWATER MONITORING DATA

Groundwater Monitoring Program Initiation

**NYSDEC Inactive Hazardous Waste Site 9-15-066
Cheektowaga, New York**

**IT Corporation
June 12, 2000**

Sample Designation	Monitoring Well ID	Date of Sample Collection	1,2-Dichloroethene (total)	1,1,1-Trichloroethane	Trichloroethene	Vinyl Chloride	Toluene	Cadmium	Lead	Above Remedial Active Objectives?
Remedial Action Objective	NA	NA	5	5	5	5	5	5	25	NA
BAS28050400	MW-28	5/4/00	ND	ND	ND	ND	ND	1.5	3.1B	NO
BAS02050400	MW-02	5/4/00	ND	ND	ND	1.6J	ND	1.3	3.0B	NO
BAS30050400	MW-30	5/4/00	ND	ND	ND	ND	ND	3.0	11.8	NO
BAS34050600	MW-34	5/6/00	ND	ND	ND	ND	ND	1.2	3.8B	NO
BAS34D050600	MW-34D	5/6/00	ND	ND	ND	ND	ND	1.2	3.1B	NO
BAS31050900	MW-31	5/9/00	ND	ND	ND	ND	ND	0.70U	3.0U	NO
BAS33051100	MW-33	5/11/00	ND	ND	1.3J	ND	ND	1.3	ND	NO
BAS32051100	MW-32	5/11/00	1,500D	ND	3,700D	540D	ND	ND	ND	YES
BAS05051100	MW-05	5/11/00	ND	ND	5.0	ND	ND	ND	18.0	NO

- Notes:** 1. All concentrations are shown in ug/l (parts per billion).
 2. NA - Not Applicable.
 3. ND - Not Detected.
 4. D - Diluted sample.
 5. J - Estimated value.
 6. B - Indicates a value greater than the instrument detection limit.

ATTACHMENT B
PROJECT WORKING SCHEDULE

NYSDEC SITE 9-15-066 REMEDIAL DESIGN/REMEDIAL ACTION



Prepared by: L. M. Brausch
 Date: Mon 7/10/00
 File: RDRA Schedule

Task		Rolled Up Task		Project Summary	
Progress		Rolled Up Milestone		Split	
Milestone		Rolled Up Progress		Rolled Up Split	
Summary		External Tasks			

NYSDEC SITE 9-15-066 REMEDIAL DESIGN/REMEDIAL ACTION

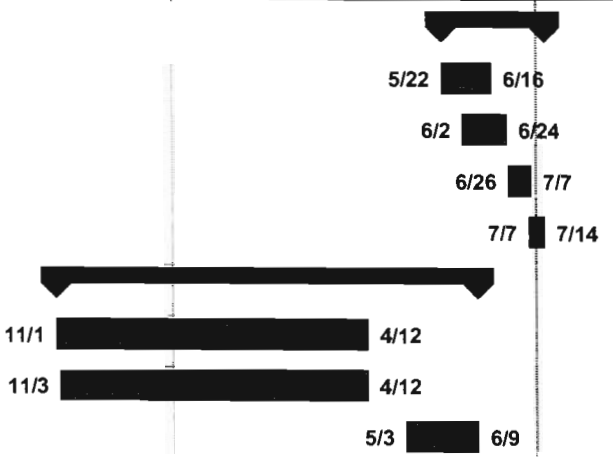
ID	Task Name	1999												2000									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
109	Soil Treatment																						
114	Groundwater Recovery and Treatment																						
115	Storm Water Controls																						
116	Catch Basin Sealing																						
117	Sewer Cleaning																						
118	Fan Room Tunnel Trench																						
119	Storm Sewer and Utility Plugs																						
120	Smoke Testing																						
121	GW Collection Manholes and Piping																						
122	Augment Storm Sewer Manholes																						
123	Treatment Plant Procurement																						
124	Foundation and Floor Slab Construction																						
125	Utilities and Piping																						
126	Set Equipment																						
127	Building Erection																						
128	Hydraulic Testing																						
129	Treatment Testing/Start-up																						

Prepared by: L. M. Brausch
 Date: Mon 7/10/00
 File: RDRA Schedule

Task		Rolled Up Task		Project Summary	
Progress		Rolled Up Milestone		Split	
Milestone		Rolled Up Progress		Rolled Up Split	
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NYSDEC SITE 9-15-066 REMEDIAL DESIGN/REMEDIAL ACTION

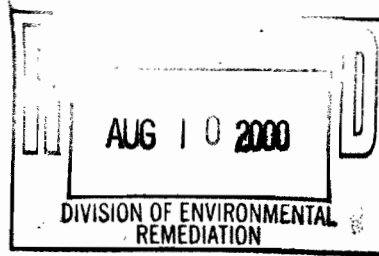
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130	U-Crest Ditch Remediation																						
131	Site Preparation																						
132	Excavation and Backfill																						
133	Restoration and Seeding																						
134	Fencing																						
135	Groundwater Monitoring Wells																						
136	Well Abandonment																						
137	Well Installation																						
138	Initial Sampling Round																						



Prepared by: L. M. Brausch
 Date: Mon 7/10/00
 File: RDRA Schedule

Task		Rolled Up Task		Project Summary	
Progress		Rolled Up Milestone		Split	
Milestone		Rolled Up Progress		Rolled Up Split	
Summary		External Tasks			

Viacom Inc.
11 Stanwix Street
Pittsburgh, PA. 15222-1384

**VIACOM**

Via Certified Mail – Return Receipt Requested

August 3, 2000

Michael J. Ryan, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

**Re: Monthly Progress Report, Order on Consent and Settlement Agreement
Index No. B9-0381-91-8, NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Ryan:

On behalf of the Respondents, Viacom, Inc. (Viacom), successor by corporate merger to CBS Corporation, submits this monthly progress report to the New York State Department of Environmental Conservation (NYSDEC) pursuant to Paragraph III of the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, regarding NYSDEC Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This report covers Remedial Program activities during the time period of July 1 through July 31, 2000.

1. Actions Taken During Previous Month to Achieve Compliance

- A. On July 10, 2000, Viacom submitted a monthly status report to NYSDEC.
- B. Project progress meetings were held on July 6 and July 27, 2000. IT prepared and distributed minutes of the project progress meetings to NYSDEC, Viacom, and the Niagara Frontier Transportation Authority (NFTA).
- C. With respect to groundwater remediation, IT subcontractors substantially completed erection of the building for the permanent groundwater treatment plant, installed pumps in wet wells and began storm sewer augmentation.
- D. IT completed restoration of the U-Crest Ditch area following sediment removal.
- E. IT demobilized unnecessary equipment and personnel from the Site.

2. Results of Sampling and Tests and Other Data

- A. No sampling or other test data were developed during the July 2000 reporting period.

3. Deliverables

- A. No project deliverables were submitted during the July 2000 reporting period.

4. Actions Projected for Next Month

- A. IT plans to complete Site remediation activities as follows:

- (1) Removal of the wastes associated with the Underslab Remediation (USR-29) concrete vaults;
- (2) Completion of storm sewer augmentation; and
- (3) Completion and start-up of the permanent groundwater treatment plant, including associated utilities, pumps, and piping.

- B. IT will demobilize all remaining Site construction facilities.

- C. IT will begin continue preparation of the final operation and maintenance manual for the remedial project.

- D. IT will continue preparation of the *Remedial Action Report*.

5. Progress and Schedule Report

- A. Through the end of the July 2000 reporting period, work activities have been completed with respect to project initiation tasks, pre-design investigations, and Remedial Design.

- B. Through the end of the June 2000 reporting period, Remedial Action has been completed as follows:

- (1) On-site soil and sediment removal and treatment (areas identified in Record of Decision) – 100 percent;
- (2) Groundwater remediation, including storm sewer system isolation and augmentation and installation of treatment facility – 93 percent;
- (3) Remediation of U-Crest Ditch – 100 percent; and

(4) Removal and off-site disposal of impacted soils and wastes from the Underslab areas - 98 percent.

- C. Operation and maintenance of installed facilities has not yet been initiated.
- D. Attachment B provides a summary Gantt chart schedule that is being used by Viacom to track progress.
- E. Viacom has just learned that the NFTA contractor for Site redevelopment apparently installed unauthorized drain connections to the portion of the Site storm sewer system being isolated and augmented for groundwater collection. The NFTA contractor apparently installed these connections after IT had completed the smoke testing designed to locate such connections. Viacom has requested that NFTA provide information regarding these unauthorized connections and a plan for plugging them. It is not clear to what extent these unauthorized drains will delay completion of the sewer system augmentation installation and start-up of the permanent groundwater treatment plant or affect the operations of these systems.
- F. No other unresolved delays have been encountered.

6. Modifications to Work Plan

- A. No plan modifications were proposed or approved during the July 2000 reporting period.

7. Activities in Support of Citizens Participation Plan

- A. No activities were undertaken in July 2000 in support of the Citizens Participation Program.

* * * *

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:
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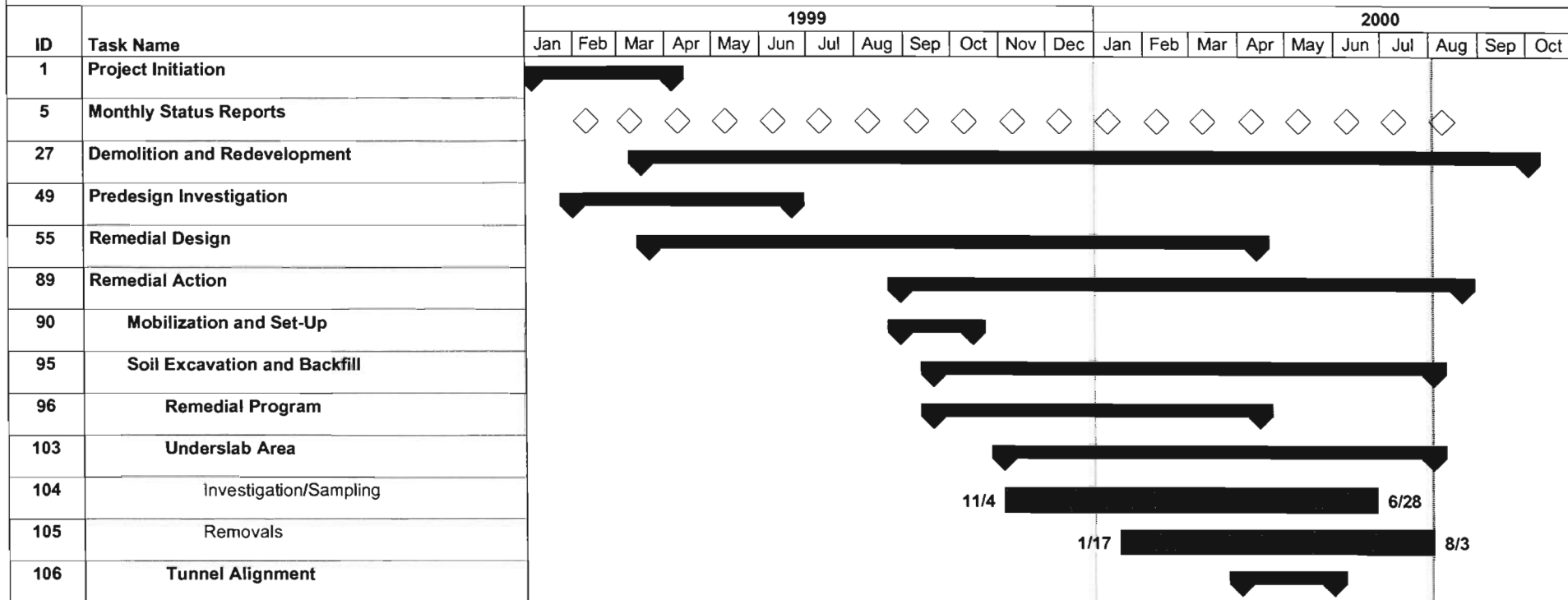
Michael J. Ryan, P.E.

August 3, 2000

Page 4

cc: Director, Bureau of Environmental Exposure Investigation
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Peter Buechi, P.E.
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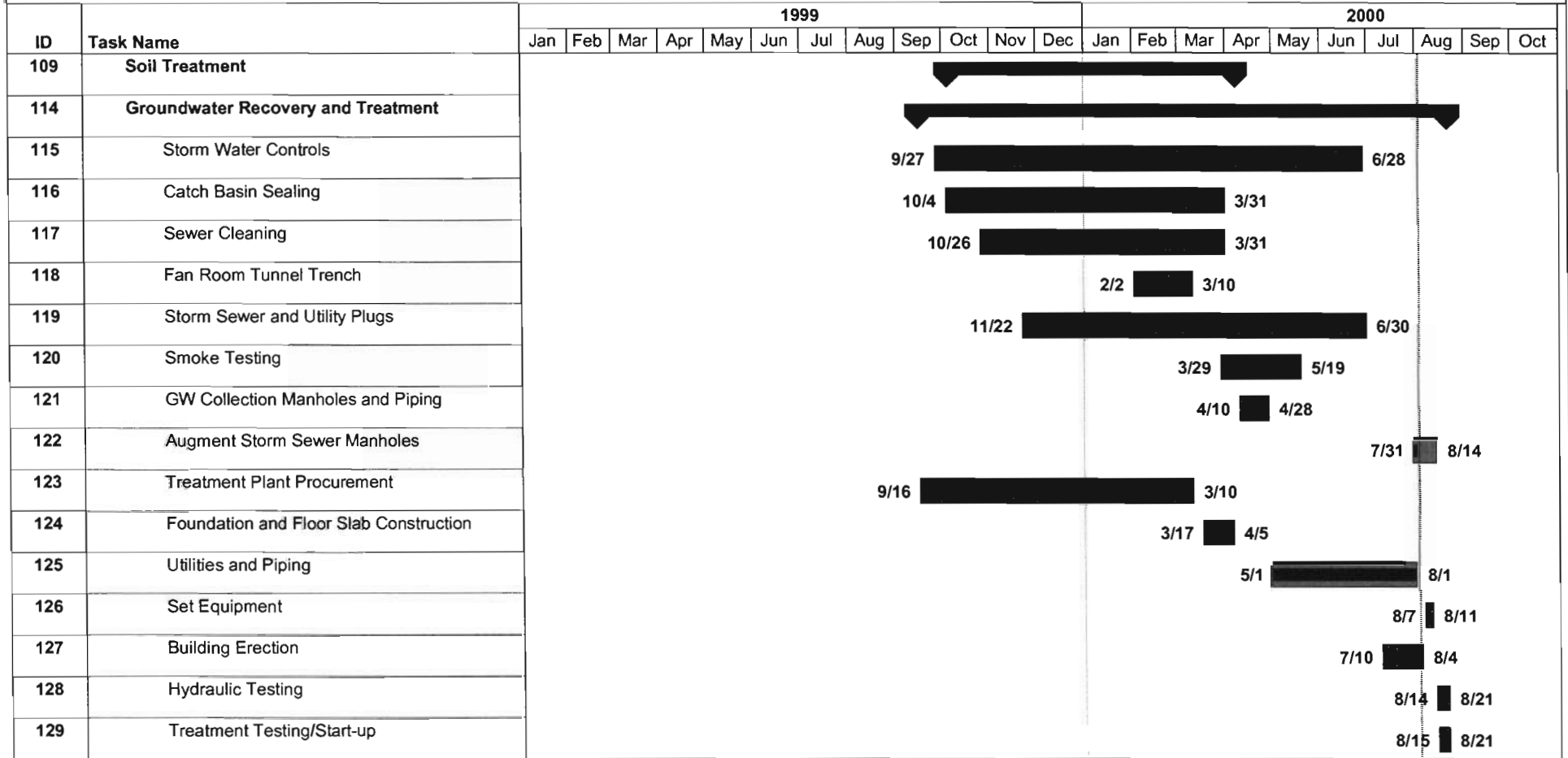
NYSDEC SITE 9-15-066 REMEDIAL DESIGN/REMEDIAL ACTION



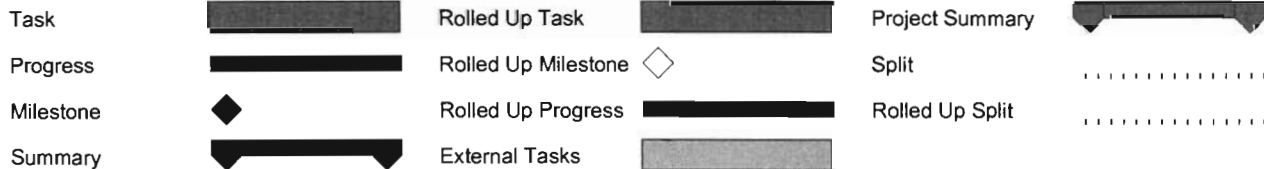
Prepared by: L. M. Brausch
 Date: Thu 8/3/00
 File: RDRA Schedule

Task		Rolled Up Task		Project Summary	
Progress		Rolled Up Milestone		Split	
Milestone		Rolled Up Progress		Rolled Up Split	
Summary		External Tasks			

NYSDEC SITE 9-15-066 REMEDIAL DESIGN/REMEDIAL ACTION

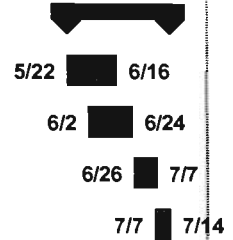


Prepared by: L. M. Brausch
 Date: Thu 8/3/00
 File: RDRA Schedule



NYSDEC SITE 9-15-066 REMEDIAL DESIGN/REMEDIAL ACTION

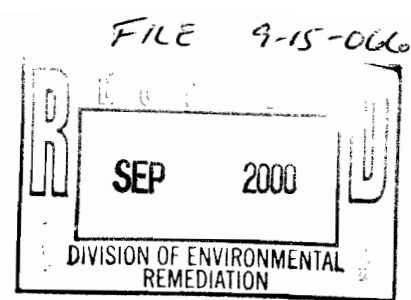
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Prepared by: L. M. Brausch
 Date: Thu 8/3/00
 File: RDRA Schedule

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Milestone		Rolled Up Progress		Rolled Up Split
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Viacom Inc.
11 Stanwix Street
Pittsburgh, PA. 15222-1384



VIACOM

Via Certified Mail – Return Receipt Requested

September 6, 2000

Michael J. Ryan, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

**Re: Monthly Progress Report, Order on Consent and Settlement Agreement
Index No. B9-0381-91-8, NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Ryan:

On behalf of the Respondents, Viacom, Inc. (Viacom) submits this monthly progress report to the New York State Department of Environmental Conservation (NYSDEC) pursuant to Paragraph III of the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, regarding NYSDEC Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This report covers Remedial Program activities during the period of August 1 through August 31, 2000.

1. Actions Taken During Previous Month to Achieve Compliance

- A. On August 3, 2000, Viacom submitted a monthly status report to NYSDEC.
- B. A project progress meeting was held on August 17, 2000. Attachment A provides minutes of this project progress meeting.
- C. With respect to soil remediation, IT completed waste removals from the Underslab Soil Remediation (USR) work area (i.e., USR-29 concrete vaults).
- D. With respect to groundwater remediation, IT completed storm sewer augmentation and installation of the permanent groundwater treatment plant. IT also conducted hydraulic testing and start-up of the treatment system. The treatment plant is now fully operational to treat waters from the 001 line, and, after start-up, the system was left operational to treat 001 line water. As of the end of August 2000, the treatment plant had treated approximately 110,000

gallons of water. Further modifications of the pH adjustment system are needed to properly treat high pH waters that have accumulated in the 002 and 003 lines.¹

E. IT completed demobilization from the Site.

2. Results of Sampling and Tests and Other Data

A. Attachment B provides the groundwater treatment system influent and effluent monitoring data received to date.

3. Deliverables

A. No project deliverables were submitted during the August 2000 reporting period.

4. Actions Projected for Next Month

A. IT will continue preparation of the final operation and maintenance (O&M) manual for the remedial project.

B. On an interim basis, IT will initiate O&M activities. Viacom is currently developing plans for long-term O&M implementation.

C. IT will continue preparation of the *Remedial Action Report*.

5. Progress and Schedule Report

A. Through the end of the August 2000 reporting period, work activities have been completed with respect to project initiation tasks, pre-design investigations, and Remedial Design.

B. Through the end of the August 2000 reporting period, Remedial Design and Remedial Action have been substantially completed, and O&M of installed facilities has been initiated.

C. Attachment B provides a summary Gantt chart schedule that is being used by Viacom to track progress.

D. No unresolved delays have been encountered.

¹ The necessary modifications to the pH adjustment system were completed on September 5, 2000, and all three sumps (001, 002, and 003) are now on-line.

6. Modifications to Work Plan

- A. No plan modifications were proposed or approved during the August 2000 reporting period.

7. Activities in Support of Citizens Participation Plan

- A. No activities were undertaken in August 2000 in support of the Citizens Participation Program.

* * * *

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:
Attachment

cc: Director, Bureau of Environmental Exposure Investigation
New York State Department of Health
Peter Buechi, P.E.
G. P. Sutton, P.E.
J. P. Ryan, Esquire
H. W. Matuszak, NFTA
M. G. Graham, Esquire
L. M. Martin, IT

ATTACHMENT A
PROGRESS MEETING MINUTES



MINUTES OF MEETING

LOCATION: NYSDEC Inactive Hazardous Waste Site No. 9-15-066
Cheektowaga, New York

MEETING DATE: August 17, 2000

CONDUCTED BY: Larry Martin

MINUTES BY: Emily Gaspich

SUBJECT: Progress Meeting Summary

IT JOB NO. 870717

PROJECT: NYSDEC Inactive Hazardous Waste Site

DISTRIBUTION: Viacom, Inc.
NYSDEC

THOSE IN ATTENDANCE:

IT Corp.
Rich Kilmer
Larry Martin
Mark Paige

NYSDEC
Greg Sutton

Viacom, Inc.
Leo Brausch

A progress meeting was conducted on August 17, 2000 at the IT Corporation office in North Tonawanda, New York. Participants included representatives from Viacom Incorporated (formerly CBS Corporation, Viacom or the client), New York State Department of Environmental Conservation (NYSDEC), and IT Corporation (IT).

The meeting agenda was as follows:

Health & Safety

Permanent Groundwater Treatment Plant (PGTP)

Miscellaneous

HEALTH & SAFETY

There were no accidents or incidents reported since the previous project progress meeting on 7-27-00.

PERMANENT GROUNDWATER TREATMENT PLANT (PGTP)

The groundwater collection system has been installed. The pumps and floats were set in the manholes. The manholes and associated pipes have been augmented to permit groundwater to enter the collection system. Wire Electric was on-site to connect the floats and pumps to the control panel.

The PGTP is almost complete. The controls were successfully tested. No leaks were detected during the hydraulic testing of the equipment.

MINUTES OF MEETING – Project No. 870717

Progress Meeting Summary

August 17, 2000

Page 2 of 2

A pH adjustment component needs to be plumbed into the system due to the increase in pH caused by the use of concrete as backfill on-Site by others.

The building passed inspection on 8-16-00. Fire and electrical inspections are scheduled for later today (8-17-00).

The PGTP will be equipped with a 55-gallon drum to be used for the disposal of sediments that have been cleaned out of the equalization tank or other equipment and particulate waste from spent bag filters.

A warning sign will be posted outside of the mandoor. The purpose of the sign will be to deter non-authorized persons from entering the PGTP building. It will also advise entrants of the proper PPE to wear when entering the building, and warn workers of potential contaminants.

The garage door is only accessible from the inside. The mandoor will remain locked at all times. Keys to the mandoor will be distributed to Encotech personnel, L. Brausch (the client), a representative from IT, and G.Sutton (NYSDEC).

The system will be equipped with a sampling tap prior to the acid injection point to facilitate the collection of one combined influent sample from all three collection sumps.

An alarm will be set to indicate when the temperature inside the building falls below 40° F or rises above 140° F.

The client and NYSDEC agreed to a modification of sampling frequency during the star-up of the plant. Originally, one (1) sample of influent water and one (1) sample of effluent water were to be collected daily for the first five (5) days of treatment plant operation. Additionally, one (1) influent and one (1) effluent sample were to be collected weekly for the following two (2) weeks, totaling seven (7) samples of influent and seven (7) samples of effluent. Instead, during the first two (2) days of operation of the plant, one (1) each of an influent and effluent sample will be collected. For the next five (5) weeks of operation, one (1) each of an influent and effluent sample will be collected weekly. The total number of samples collected during the first five weeks of operation will be seven (7) influent samples and seven (7) effluent samples.

After the initial start-up sampling program, long-term monitoring will continue during operation of the treatment plant in accordance with the airport-wide SPEDS permit. One (1) influent and one (1) effluent sample will be collected on a monthly basis. Data monitoring report submittals will be provided monthly to the NFTA. Quarterly and annual reports will be submitted to the NYSDEC.

Operation and Maintenance of the PGTP will include protocols and procedures for routine inspections, carbon change outs, and solids disposal.

IT will prepare a proposal for the Operation and Maintenance of the PGTP.

MISCELLANEOUS

IT plugged the unauthorized tunnel connection to the groundwater collection system (at MH-002-15) on 8-12-00.

The monitoring wells and PGTP building survey data will be converted to GPS coordinates so that the locations of these structures can be incorporated into the NFTA as-built re-developed Site plan.

ATTACHMENT B
INFLUENT AND EFFLUENT MONITORING DATA

Table 1

Permanent Groundwater Treatment Plant
Influent Sample Analysis Results through August 29, 2000
NYSDEC Inactive Hazardous Waste Site 9-15-066
Cheektowaga, New York

Sample	Designation	PGTP-IN-082100	PGTP-IN-082900
Sample	Date	Collection	
		08/21/00	08/29/00
PCBs (ug/l)			
Arochlor 1016		0.065U	0.065U
Arochlor 1221		0.065U	0.065U
Arochlor 1232		0.065U	0.065U
Arochlor 1242		0.065U	0.065U
Arochlor 1248		0.065U	0.065U
Arochlor 1254		0.065U	0.065U
Arochlor 1260		0.065U	0.065U
SEMIVOLATILE ORGANICS (ug/L)			
N-nitrosodiphenylamine		10U	10U
N-nitroso-Di-n-propylamine		10U	10U
2-Nitroaniline		24U	25U
3-Nitroaniline		24U	25U
4-Nitroaniline		24U	25U
3,3-Dichlorobenzidine		10U	10U
2-Chloronaphthalene		10U	10U
Dibenzofuran		1J	2J
1,2-Dichlorobenzene		10U	10U
1,3-Dichlorobenzene		10U	10U
1,4-Dichlorobenzene		10U	10U
Hexachlorobenzene		10U	10U
Hexachlorobutadiene		10U	10U
Hexachloroethane		10U	10U
Hexachlorocyclopentadiene		10U	10U
2-Methylnaphthalene		1J	2J
1,2,4-Trichlorobenzene		10U	10U
4-Chloroaniline		10U	10U
Butyl benzyl phthalate		10U	10U
Bis(2-ethylhexyl) phthalate		0.7J	10U
Diethyl phthalate		10U	10U
Dimethyl phthalate		10U	10U
Di-n-butyl phthalate		10U	1J
Di-n-octyl phthalate		10U	10U

Table 1

Permanent Groundwater Treatment Plant
 Influent Sample Analysis Results through August 29, 2000
 NYSDEC Inactive Hazardous Waste Site 9-15-066
 Cheektowaga, New York

Sample	Designation	PGTP-IN-082100	PGTP-IN-082900
Sample	Date	Collection	
		08/21/00	08/29/00
Carbazole		11	21
2,4-Dinitrotoluene		10U	10U
2,6-Dinitrotoluene		10U	10U
Isophorone		10U	10U
Nitrobenzene		10U	10U
Acenaphthylene		10U	10U
Acenaphthene		10U	3J
Anthracene		10U	10U
Benzo(a)anthracene		10U	10U
Benzo(a)pyrene		10U	10U
Benzo(b)fluoranthene		10U	10U
Benzo(ghi)perylene		10U	10U
Benzo(k)fluoranthene		10U	10U
Chrysene		10U	10U
Dibenzo(a,h)anthracene		10U	10U
Fluoranthene		1J	1J
Fluorane		2J	3J
Indeno(1,2,3-cd)pyrene		10U	10U
Naphthalene		18	18
Phenanthrene		2J	4J
Pyrene		0.8J	0.9J
4-Chloro-3-methylphenol		10U	10U
2-Chlorophenol		10U	10U
2,4-Dichlorophenol		10U	10U
2,4-Dimethylphenol		13	5J
2,4-Dinitrophenol		24U	25U
4,6-Dinitro-2-methylphenol		24U	25U
2-Methylphenol		7J	8J
4-Methylphenol		41	48
2-Nitrophenol		10U	0.8J
4-Nitrophenol		24U	25U
Pentachlorophenol		1J	0.6J
Phenol		25	38
2,4,5-Trichlorophenol		24U	25U

Table 1

Permanent Groundwater Treatment Plant
Influent Sample Analysis Results through August 29, 2000
NYSDEC Inactive Hazardous Waste Site 9-15-066
Cheektowaga, New York

Sample	Designation	PGTP-IN-082100	PGTP-IN-082900	
Sample	Date	Collection	08/21/00	08/29/00
2,4,6-Trichlorophenol			10U	10U
Bis (2-chloroethyl) ether			10U	10U
2,2-Oxybis (1-Chloropropane)			10U	10U
Bis (2-chloroethoxy) methane			10U	10U
4-Bromophenyl phenyl ether			10U	10U
4-Chlorophenyl phenyl ether			10U	10U
Chrysene-D12			105	201*
Perylene-D12			95	179
<u>VOLATILE ORGANICS (UG/L)</u>				
Chloromethane			200U	DUE 9-7-00
Bromomethane			200U	DUE 9-7-00
Vinyl Chloride			200U	DUE 9-7-00
Chloroethane			200U	DUE 9-7-00
Methylene Chloride			815U	DUE 9-7-00
Acetone			1000U	DUE 9-7-00
Carbon Disulfide			200U	DUE 9-7-00
1,1 - Dichloroethene			200U	DUE 9-7-00
1,1-Dichloroethane			200U	DUE 9-7-00
cis-1,2-Dichloroethene			200U	DUE 9-7-00
trans-1,2-Dichloroethene			200U	DUE 9-7-00
Chloroform			200U	DUE 9-7-00
1,2-Dichloroethane			200U	DUE 9-7-00
2-Butanone			1000U	DUE 9-7-00
Bromochloromethane			200U	DUE 9-7-00
1,1,1-Trichloroethane			200U	DUE 9-7-00
Carbon Tetrachloride			200U	DUE 9-7-00
Bromodichloromethane			200U	DUE 9-7-00
1,2-Dichloropropane			200U	DUE 9-7-00
cis-1,3-Dichloropropene			200U	DUE 9-7-00
Trichloroethene			300	DUE 9-7-00
Dibromochloromethane			200U	DUE 9-7-00
1,1,2-Trichloroethane			200U	DUE 9-7-00

Table 1

**Permanent Groundwater Treatment Plant
Influent Sample Analysis Results through August 29, 2000
NYSDEC Inactive Hazardous Waste Site 9-15-066
Cheektowaga, New York**

Sample	Designation	PGTP-IN-082100	PGTP-IN-082900
Sample	Date	Collection	
		08/21/00	08/29/00
Benzene		200U	DUE 9-7-00
trans-1,3-Dichloropropene		200U	DUE 9-7-00
Bromoform		200U	DUE 9-7-00
4-Methyl-2-pentanone		1000U	DUE 9-7-00
2-Hexanone		1000U	DUE 9-7-00
Tetrachloroethane		270	DUE 9-7-00
1,1,2,2-Tetrachloroethane		200U	DUE 9-7-00
1,2-Dibromoethane		200U	DUE 9-7-00
Toluene		200U	DUE 9-7-00
Chlorobenzene		200U	DUE 9-7-00
Ethylbenzene		200U	DUE 9-7-00
Styrene		200U	DUE 9-7-00
Total Xylenes		200U	DUE 9-7-00
1,3-Dichlorobenzene		200U	DUE 9-7-00
1,4-Dichlorobenzene		200U	DUE 9-7-00
1,2-Dichlorobenzene		200U	DUE 9-7-00
1,2-Dibromo-3-chloropropane		200U	DUE 9-7-00
1,2,4-Trichlorobenzene		200U	DUE 9-7-00
TOTAL CATIONS + CD (ug/L)			
Cadmium		1.5	0.70*
Calcium		128,000E	166,000E
Iron		1,160	92.0*
Manganese		55.2E	9.6
Potassium		65,700	11,500N*
Sodium		79,400	101,000E

Table 1

**Permanent Groundwater Treatment Plant
Influent Sample Analysis Results through August 29, 2000
NYSDEC Inactive Hazardous Waste Site 9-15-066
Cheektowaga, New York**

Sample	Designation	PGTP-IN-082100	PGTP-IN-082900
Sample	Date	Collection	
		08/21/00	08/29/00
WET CHEMISTRY ANALYSIS (mg/L)			
Chloride		337	140
Fluoride		0.50U	0.50U
Nitrate		0.71	0.83
Sulfate		150	110
Total Alkalinity		80.8	420
Total Dissolved Solids		1020	10U
Total Recoverable Oil and Grease		8.3	DUE 9-7-00
Total Suspended Solids		34.0	4.0U
pH - Standard Units		7.26	12.0

USEPA ORGANIC DATA QUALIFIERS

1. U - Not detected in sample.
2. B - Analyte detected in blank.
3. E - Concentration exceeds calibration range.
4. J - Estimated value.
5. N - Indicates presumptive evidence of a compound.

USEPA INORGANIC DATA QUALIFIERS

1. U - Not detected in sample.
2. B - Concentration exceeds detection limit.
3. E - Estimated value.
4. N - Spike sample recovery not within control limits.
6. * - Outside QC Limits

Table 2

Permanent Groundwater Treatment Plant
Effluent Sample Analysis Results through August 29, 2000
NYSDEC Inactive Hazardous Waste Site 9-15-066
Cheektowaga, New York

Sample	Designation	PGTP-EF-082100	PGTP-EF-082900
Sample	Collection Date	08/21/00	08/29/00
PCBs (ug/l)			
Arochlor 1016		0.065U	0.065U
Arochlor 1221		0.065U	0.065U
Arochlor 1232		0.065U	0.065U
Arochlor 1242		0.065U	0.065U
Arochlor 1248		0.065U	0.065U
Arochlor 1254		0.065U	0.065U
Arochlor 1260		0.065U	0.065U
SEMIVOLATILE ORGANICS (ug/L)			
N-nitrosodiphenylamine		10U	9U
N-nitroso-Di-n-propylamine		10U	9U
2-Nitroaniline		24U	23U
3-Nitroaniline		24U	23U
4-Nitroaniline		24U	23U
3,3-Dichlorobenzidine		10U	9U
2-Chloronaphthalene		10U	9U
Dibenzofuran		10U	9U
1,2-Dichlorobenzene		10U	9U
1,3-Dichlorobenzene		10U	9U
1,4-Dichlorobenzene		10U	9U
Hexachlorobenzene		10U	9U
Hexachlorobutadiene		10U	9U
Hexachloroethane		10U	9U
Hexachlorocyclopentadiene		10U	9U
2-Methylnaphthalene		10U	9U
1,2,4-Trichlorobenzene		10U	9U
4-Chloroaniline		10U	9U
Butyl benzyl phthalate		10U	9U
Bis(2-ethylhexyl) phthalate		10U	9U
Diethyl phthalate		10U	9U
Dimethyl phthalate		10U	9U
Di-n-butyl phthalate		10U	9U
Di-n-octyl phthalate		10U	9U
Carbazole		10U	9U
2,4-Dinitrotoluene		10U	9U
2,6-Dinitrotoluene		10U	9U
Isophorone		10U	9U
Nitrobenzene		10U	9U
Acenaphthylene		10U	9U
Acenaphthene		10U	9U
Anthracene		10U	9U
Benzo(a)anthracene		10U	9U
Benzo(a)pyrene		10U	9U
Benzo(b)fluoranthene		10U	9U

Table 2

Permanent Groundwater Treatment Plant
Effluent Sample Analysis Results through August 29, 2000
NYSDEC Inactive Hazardous Waste Site 9-15-066
Cheektowaga, New York

Sample	Designation	PGTP-EF-082100	PGTP-EF-082900
Sample	Collection	08/21/00	08/29/00
Date			
Benzo(ghi)perylene		10U	9U
Benzo(k)fluoranthene		10U	9U
Chrysene		10U	9U
Dibenzo(a,h)anthracene		10U	9U
Fluoranthene		10U	9U
Fluorane		10U	9U
Indeno(1,2,3-cd)pyrene		10U	9U
Naphthalene		10U	9U
Phenanthrene		10U	9U
Pyrene		10U	9U
4-Chloro-3-methylphenol		10U	9U
2-Chlorophenol		10U	9U
2,4-Dichlorophenol		10U	9U
2,4-Dimethylphenol		10U	9U
2,4-Dinitrophenol		24U	23U
4,6-Dinitro-2-methylphenol		24U	23U
2-Methylphenol		10U	9U
4-Methylphenol		10U	9U
2-Nitrophenol		10U	9U
4-Nitrophenol		24U	23U
Pentachlorophenol		24U	23U
Phenol		10U	9U
2,4,5-Trichlorophenol		24U	23U
2,4,6-Trichlorophenol		10U	9U
Bis (2-chloroethyl) ether		10U	9U
2,2-Oxybis (1-Chloropropane)		10U	9U
Bis (2-chloroethoxy) methane		10U	9U
4-Bromophenyl phenyl ether		10U	9U
4-Chlorophenyl phenyl ether		10U	9U
Chrysene-D12		63	183
Perylene-D12		67	177

Table 2

Permanent Groundwater Treatment Plant
Effluent Sample Analysis Results through August 29, 2000
NYSDEC Inactive Hazardous Waste Site 9-15-066
Cheektowaga, New York

Sample	Designation	PGTP-EF-082100	PGTP-EF-082900
Sample	Collection	08/21/00	08/29/00
Date			
<u>VOLATILE ORGANICS (UG/L)</u>			
Chloromethane		1U	DUE 9-7-00
Bromomethane		1U	DUE 9-7-00
Vinyl Chloride		1U	DUE 9-7-00
Chloroethane		1U	DUE 9-7-00
Methylene Chloride		2U	DUE 9-7-00
Acetone		5U	DUE 9-7-00
Carbon Disulfide		1U	DUE 9-7-00
1,1 - Dichloroethene		1U	DUE 9-7-00
1,1-Dichloroethane		1U	DUE 9-7-00
cis-1,2-Dichloroethene		1U	DUE 9-7-00
trans-1,2-Dichloroethene		1U	DUE 9-7-00
Chloroform		1U	DUE 9-7-00
1,2-Dichloroethane		1U	DUE 9-7-00
2-Butanone		5U	DUE 9-7-00
Bromochloromethane		1U	DUE 9-7-00
1,1,1-Trichloroethane		1U	DUE 9-7-00
Carbon Tetrachloride		1U	DUE 9-7-00
Bromodichloromethane		1U	DUE 9-7-00
1,2-Dichloropropane		1U	DUE 9-7-00
cis-1,3-Dichloropropene		1U	DUE 9-7-00
Trichloroethene		1U	DUE 9-7-00
Dibromochloromethane		1U	DUE 9-7-00
1,1,2-Trichloroethane		1U	DUE 9-7-00
Benzene		1U	DUE 9-7-00
trans-1,3-Dichloropropene		1U	DUE 9-7-00
Bromoform		1U	DUE 9-7-00
4-Methyl-2-pentanone		1U	DUE 9-7-00
2-Hexanone		1U	DUE 9-7-00
Tetrachloroethane		1U	DUE 9-7-00
1,1,2,2-Tetrachloroethane		1U	DUE 9-7-00
1,2-Dibromoethane		1U	DUE 9-7-00
Toluene		1U	DUE 9-7-00
Chlorobenzene		1U	DUE 9-7-00
Ethylbenzene		1U	DUE 9-7-00
Styrene		1U	DUE 9-7-00
Total Xylenes		1U	DUE 9-7-00
1,3-Dichlorobenzene		1U	DUE 9-7-00
1,4-Dichlorobenzene		1U	DUE 9-7-00
1,2-Dichlorobenzene		1U	DUE 9-7-00
1,2-Dibromo-3-chloropropane		1U	DUE 9-7-00
1,2,4-Trichlorobenzene		1U	DUE 9-7-00

Table 2

Permanent Groundwater Treatment Plant
 Effluent Sample Analysis Results through August 29, 2000
 NYSDEC Inactive Hazardous Waste Site 9-15-066
 Cheektowaga, New York

Sample	Designation	PGTP-EF-082100	PGTP-EF-082900
Sample	Collection Date	08/24/00	08/29/00
TOTAL CATIONS + CD (ug/L)			
Cadmium		0.70U	0.70U*
Calcium		64,800E	175,000E
Iron		22.2B	77.0*
Manganese		113E	126
Potassium		18,000	101,000N*
Sodium		39,000	105,000E
WET CHEMISTRY ANALYSIS (mg/L)			
Chloride		405	271
Fluoride		0.60U	0.50U
Nitrate		0.850U	1.9
Sulfate		106	152
Total Alkalinity		176	94.9
Total Dissolved Solids		387	10U
Total Recoverable Oil and Grease		5.4	DUE 9-7-00
Total Suspended Solids		4.0U	4.0U
pH - Standard Units		9.03	7.92

USEPA ORGANIC DATA QUALIFIERS

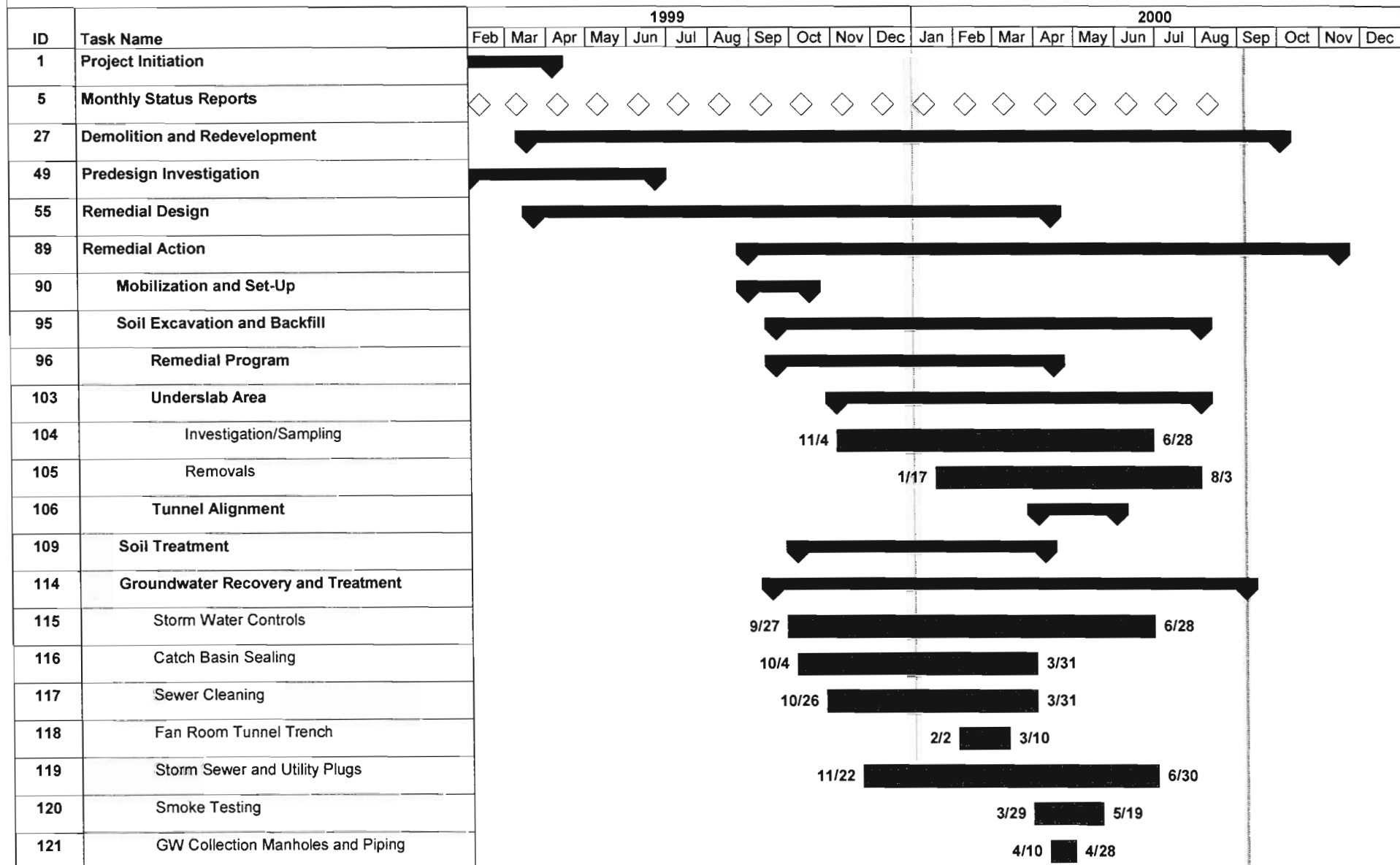
1. U - Not detected in sample.
2. B - Analyte detected in blank.
3. E - Concentration exceeds calibration range.
4. J - Estimated value.
5. N - Indicates presumptive evidence of a compound.

USEPA INORGANIC DATA QUALIFIERS

1. U - Not detected in sample.
2. B - Concentration exceeds detection limit.
3. E - Estimated value.
4. N - Spike sample recovery not within control limits.
6. * - Outside QC Limits

ATTACHMENT C
PROJECT SCHEDULE

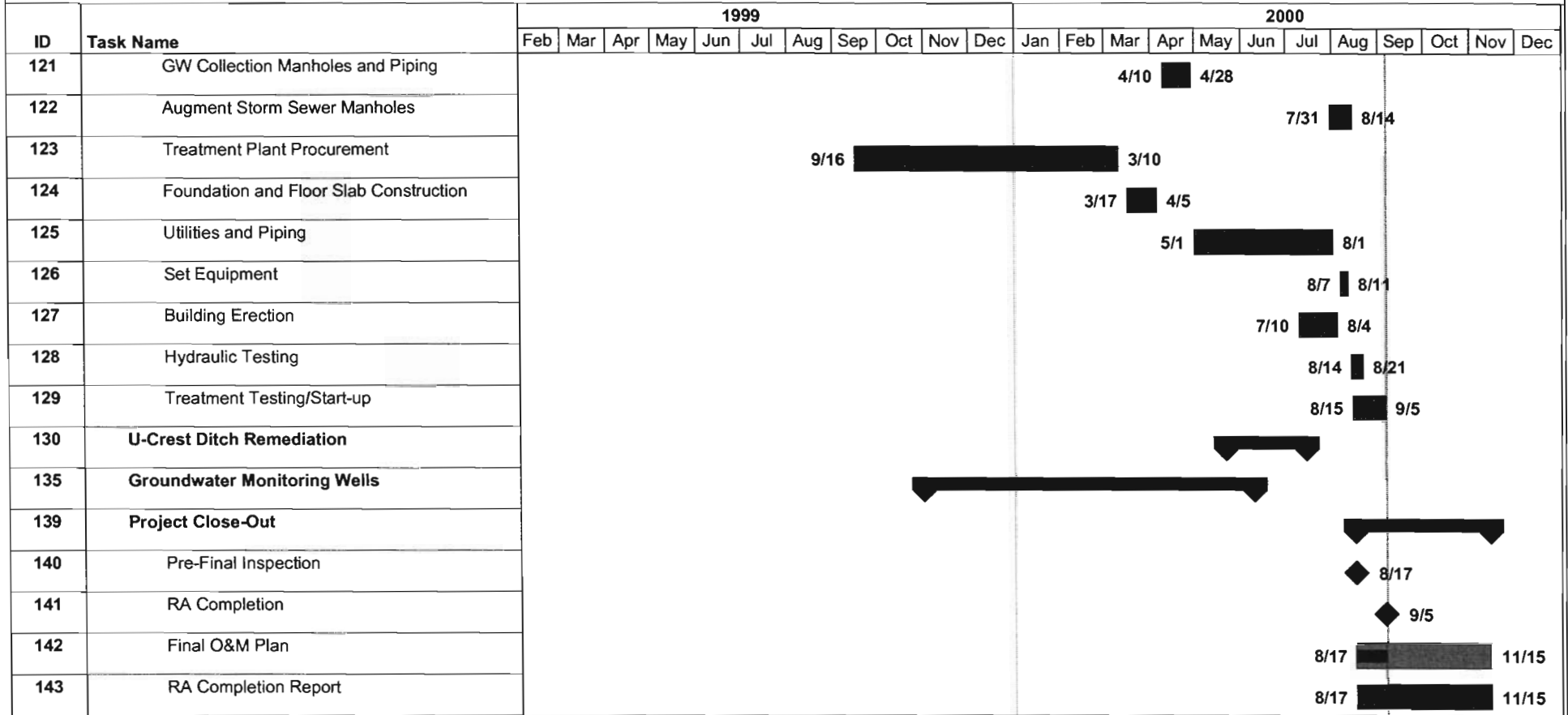
NYSDEC SITE 9-15-066 REMEDIAL DESIGN/REMEDIAL ACTION



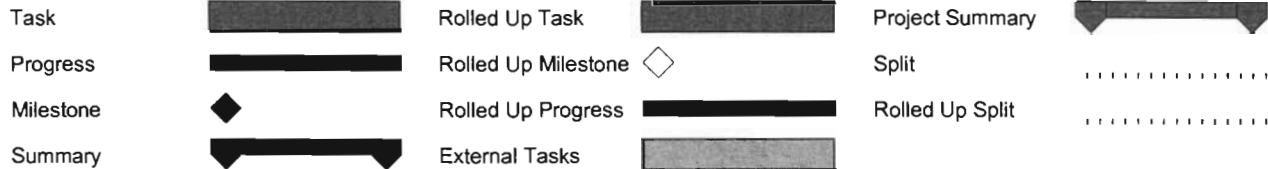
Prepared by: L. M. Brausch
 Date: Wed 9/6/00
 File: RDRA Schedule

Task	█	Rolled Up Task	█	Project Summary	█
Progress	█	Rolled Up Milestone	◇	Split
Milestone	◆	Rolled Up Progress	█	Rolled Up Split
Summary	█	External Tasks	█		

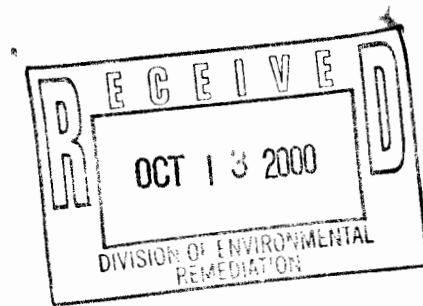
NYSDEC SITE 9-15-066 REMEDIAL DESIGN/REMEDIAL ACTION



Prepared by: L. M. Brausch
 Date: Wed 9/6/00
 File: RDRA Schedule



Viacom Inc.
11 Stanwix Street
Pittsburgh, PA. 15222-1384



VIACOM.

Via Certified Mail – Return Receipt Requested

October 9, 2000

Michael J. Ryan, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

**Re: Monthly Progress Report, Order on Consent and Settlement Agreement
Index No. B9-0381-91-8, NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Ryan:

On behalf of the Respondents, Viacom, Inc. (Viacom) submits this monthly progress report to the New York State Department of Environmental Conservation (NYSDEC) pursuant to Paragraph III of the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, regarding NYSDEC Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This report covers Remedial Program activities during the period of September 1 through September 30, 2000.

1. Actions Taken During Previous Month to Achieve Compliance

- A. On September 6, 2000, Viacom submitted a monthly status report to NYSDEC.
- B. IT Corporation (IT) completed the modifications to the pH adjustment components of the groundwater treatment system to provide proper treatment of high pH waters that have accumulated in the 002 and 003 lines. All three sumps (001, 002, and 003) are now on-line, and the groundwater recovery and treatment system is fully operational.
- C. The groundwater recovery and treatment system operated throughout the September 2000 reporting period. Over this period, the groundwater system recovered and treated approximately 432,000 gallons (Table 1). System influent and effluent were sampled on September 6, September 13, September 20, and September 27, 2000.

2. Results of Sampling and Tests and Other Data

- A. Table 2 summarizes the groundwater treatment system influent and effluent monitoring data received to date. Laboratory reports for these data are being forwarded by IT to NYSDEC as they are received.

3. Deliverables

- A. No project deliverables were submitted during the September 2000 reporting period.

4. Actions Projected for Next Month

- A. IT will continue preparation of the final operation and maintenance (O&M) manual for the remedial project.
- B. IT will continue O&M activities on an interim basis. Viacom is currently developing plans for long-term O&M implementation.
- C. IT will continue preparation of the *Remedial Action Report*.
- D. Viacom will conduct an inspection of all manholes and groundwater monitoring wells to which access will be required during the O&M period to confirm their current condition and their location with respect to Niagara Frostier Transportation Authority development.

5. Progress and Schedule Report

- A. Through the end of the September 2000 reporting period, work activities have been completed with respect to project initiation tasks, pre-design investigations, and Remedial Design.
- B. Through the end of the September 2000 reporting period, Remedial Action has been substantially completed, and O&M of installed facilities has been initiated.
- C. No unresolved delays have been encountered.

6. Modifications to Work Plan

- A. No plan modifications were proposed or approved during the September 2000 reporting period.

Michael J. Ryan, P.E.

October 9, 2000

Page 3

7. Activities in Support of Citizens Participation Plan

- A. No activities were undertaken in September 2000 in support of the Citizens Participation Program.

* * * *

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:

Attachments

cc: Director, Bureau of Environmental Exposure Investigation
New York State Department of Health
Peter Buechi, P.E.
G. P. Sutton, P.E.
J. P. Ryan, Esquire
H. W. Matuszak, NFTA
M. G. Graham, Esquire
L. M. Martin, IT

TABLES

**Table 1
Groundwater Treatment Plant Discharge**

Date	Time	Day	Treatment System Discharge		
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)
08/21/00	12:00 PM	0.0	0.000	--	--
08/27/00	7:30 PM	6.3	99.360	10.9	10.9
08/28/00	8:00 AM	6.8	100.260	1.2	10.2
08/31/00	11:59 PM	10.5	120.704 C	3.9	8.0
August Total			120.704	8.0	8.0
09/06/00	2:40 PM	16.1	152.000	3.9	6.6
09/08/00	2:00 PM	18.1	189.000	13.0	7.3
09/11/00	1:30 PM	21.1	216.000	6.3	7.1
09/13/00	4:10 PM	23.2	237.000	6.9	7.1
09/20/00	10:30 AM	29.9	366.293	13.3	8.5
09/21/00	10:15 AM	30.9	386.903	14.5	8.7
09/22/00	11:15 AM	32.0	418.104	20.8	9.1
09/25/00	9:30 AM	34.9	464.912	11.1	9.3
09/27/00	9:00 AM	36.9	491.432	9.3	9.3
09/29/00	3:00 PM	39.1	516.106	7.6	9.2
09/30/00	11:59 PM	40.5	552.576 C	10.9	9.5
September Total			431.871	7.4	9.5
10/02/00	1:00 PM	42.0	593.505	12.5	9.8
10/04/00	11:00 AM	44.0	636.477	14.2	10.1
10/06/00	9:45 AM	45.9	672.770	16.0	10.2

Note: "C" indicates calculated value (by interpolation).

Table 2
Summary of Influent and Effluent Sampling Results
Start-Up of Groundwater Treatment Plant

Sample Designation	Influent Samples			Effluent Samples		
	PGTP-IN-082100	PGTP-IN-082900	PGTP-IN-090600	PGTP-EF-082100	PGTP-EF-082900	PGTP-EF-090600
Sample Collection Date	08/21/00	08/29/00	09/06/00	08/21/00	08/29/00	09/06/00
<u>SEMIVOLATILE ORGANICS (ug/L)</u>						
Dibenzofuran	1J	2J	9U	10U	9U	9U
2-Methylnaphthalene	1J	2J	9U	10U	9U	9U
Bis(2-ethylhexyl) phthalate	0.7J	10U	9U	10U	9U	9U
Diethyl phthalate	10U	10U	0.7J	10U	9U	9U
Di-n-butyl phthalate	10U	1J	9U	10U	9U	9U
Carbazole	11	21	20	10U	9U	9U
Acenaphthene	10U	3J	5J	10U	9U	9U
Anthracene	10U	10U	2J	10U	9U	9U
Fluoranthene	1J	1J	2J	10U	9U	9U
Fluorene	2J	3J	4J	10U	9U	9U
Naphthalene	13	18	21	10U	9U	9U
Phenanthrene	2J	4J	7J	10U	9U	9U
Pyrene	0.8J	0.9J	2J	10U	9U	9U
2,4-Dimethylphenol	13	5J	26	10U	9U	9U
2-Methylphenol	7J	8J	12	10U	9U	9U
4-Methylphenol	41	48	63	10U	9U	9U
2-Nitrophenol	10U	0.8J	9U	10U	9U	9U
4-Nitrophenol	24U	25U	23U	24U	23U	23U
Pentachlorophenol	1J	0.6J	2J	24U	23U	23U
Phenol	25	38	43	10U	9U	9U
<u>VOLATILE ORGANICS (UG/L)</u>						
Methylene Chloride	81BJ	270BDJ	400U	2U	2U	2U
Trichloroethylene	3,100	8,500D	4,100	1U	1U	1U
Tetrachloroethylene	670	1,700D	760	1U	1U	1U
Toluene	200U	200U	200U	1U	1U	0.2J
<u>TOTAL CATIONS + CD (ug/L)</u>						
Cadmium	1.5	0.70*	0.70U	0.70U	0.70U*	0.70U
Calcium	128,000E	166,000E	183,000E	64,800E	175,000E	180,000E
Iron	1,180	92.0*	44.0B	22.2B	77.0*	36.3B
Manganese	55.2E	9.6	1.0U	118E	126	69.4
Potassium	65,700	11,500N*	79,800E	18,000	101,000N*	71,200E
Sodium	79,600	101,000E	85,300E	39,000	105,000E	81,800E

Table 2
Summary of Influent and Effluent Sampling Results
Start-Up of Groundwater Treatment Plant

Sample Designation	Influent Samples			Effluent Samples		
	PGTP-IN-082100	PGTP-IN-082900	PGTP-IN-090600	PGTP-EF-082100	PGTP-EF-082900	PGTP-EF-090600
Sample Collection Date	08/21/00	08/29/00	09/06/00	08/21/00	08/29/00	09/06/00
<u>WET CHEMISTRY ANALYSIS (mg/L)</u>						
Chloride	337	140	60.5	40.5	271	590
Nitrate	0.71	0.83	0.073	0.050U	1.9	0.050U
Sulfate	150	110	67.5	106	152	84.6
Total Alkalinity	89.8	420	654	176	94.9	63.7
Total Dissolved Solids	1,020	10U	40,800	397	10U	1,020
Total Recoverable Oil and Grease	8.3	5.0U	8.8	5.4	5.0U	5.0U
Total Suspended Solids	34.0	4.0U	17.5	4.0U	4.0U	4.0U
pH - Standard Units	7.26	12.0	12.5	9.13	7.92	8.37

Only constituents detected in one or more influent or effluent samples are listed.

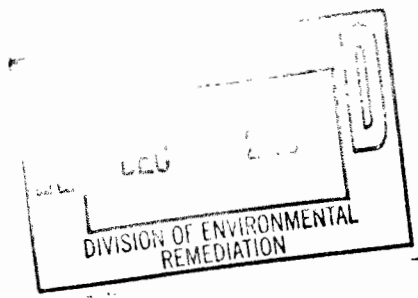
ORGANIC DATA QUALIFIERS:

1. U - Not detected in sample.
2. B - Analyte detected in blank.
3. E - Concentration exceeds calibration range.
4. J - Estimated value.
5. N - Indicates presumptive evidence of a compound.

INORGANIC DATA QUALIFIERS:

1. U - Not detected in sample.
2. B - Concentration exceeds detection limit.
3. D - Dilution performed to determine concentration.
4. E - Estimated value.
5. N - Spike sample recovery not within control limits.
6. * - Outside QC limits.

Viacom Inc.
11 Stanwix Street
Pittsburgh, PA. 15222-1384



FILE 9-15-066

VIACOM

Via Certified Mail – Return Receipt Requested

December 4, 2000

Michael J. Ryan, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

**Re: Monthly Progress Report, Order on Consent and Settlement Agreement
Index No. B9-0381-91-8, NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Ryan:

On behalf of the Respondents, Viacom Inc. (Viacom) submits this monthly progress report to the New York State Department of Environmental Conservation (NYSDEC) pursuant to Paragraph III of the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, regarding NYSDEC Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This report covers Remedial Program activities during the period of November 1 through November 30, 2000.

1. Actions Taken During Previous Month to Achieve Compliance

- A. On November 6, 2000, Viacom submitted a monthly status report to NYSDEC.
- B. IT Corporation (IT) continued groundwater recovery and treatment system operations throughout the November 2000 reporting period. Over this period, the groundwater system recovered and treated approximately 420,000 gallons (Table 1). The system effluent was sampled on November 28, 2000.
- C. On November 10, 2000, Viacom sent to NYSDEC a proposed list of parameters and schedule for routine influent and effluent monitoring for the groundwater treatment system.
- D. Also on November 10, 2000, Viacom set to NYSDEC a request to extend the submittal date for the *Remedial Action Report* and *Final Operation and*

Maintenance (O&M) Manual to December 8, 2000. NYSDEC granted this request by its letter dated November 20, 2000.

2. Results of Sampling and Tests and Other Data

- A. Groundwater treatment system monitoring data for November 2000 will be forwarded by IT to NYSDEC as soon as these data are received from the laboratory.

3. Deliverables

- A. No project deliverables were submitted during the November 2000 reporting period.

4. Actions Projected for Next Month

- A. IT plans to complete preparation of the *Remedial Action Report* and *Final O&M Manual* for for submittal to NYSDEC on or before December 8, 2000.
- B. IT will continue O&M activities on an interim basis. Viacom is currently developing plans for long-term O&M implementation.
- C. IT plans to conduct groundwater monitoring at the nine designated on-site wells, in accordance with the approved Groundwater Monitoring Plan.

5. Progress and Schedule Report

- A. Through the end of the November 2000 reporting period, work activities have been completed with respect to project initiation tasks, pre-design investigations, and Remedial Design.
- B. Through the end of the November 2000 reporting period, Remedial Action and system start-up have been substantially completed. O&M of installed facilities is currently underway.
- C. No unresolved delays have been encountered.

6. Modifications to Work Plan

- A. No plan modifications were proposed or approved during the November 2000 reporting period.

Michael J. Ryan, P.E.

December 4, 2000

Page 3

7. Activities in Support of Citizens Participation Plan

- A. No activities were undertaken in November 2000 in support of the Citizens Participation Program.

* * * *

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:

Attachments

cc: Director, Bureau of Environmental Exposure Investigation
New York State Department of Health
Peter Buechi, P.E.
G. P. Sutton, P.E.
J. P. Ryan, Esquire
H. W. Matuszak, NFTA
M. G. Graham, Esquire
L. M. Martin, IT

TABLE

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge		
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)
08/21/00	12:00 PM	0.0	0.000	--	--
08/27/00	7:30 PM	6.3	99.360	10.93	10.93
08/28/00	8:00 AM	6.8	100.260	1.20	10.19
08/31/00	11:59 PM	10.5	120.704 C	3.87	7.98
August Total			120.704	7.98	7.98
09/06/00	2:40 PM	16.1	152.000	3.87	6.55
09/08/00	2:00 PM	18.1	189.000	13.03	7.26
09/11/00	1:30 PM	21.1	216.000	6.29	7.12
09/13/00	4:10 PM	23.2	237.000	6.91	7.10
09/20/00	10:30 AM	29.9	366.293	13.27	8.50
09/21/00	10:15 AM	30.9	386.903	14.46	8.69
09/22/00	11:15 AM	32.0	418.104	20.80	9.08
09/25/00	9:30 AM	34.9	464.912	11.11	9.25
09/27/00	9:00 AM	36.9	491.432	9.31	9.25
09/29/00	3:00 PM	39.1	516.106	7.62	9.16
09/30/00	11:59 PM	40.5	552.576 C	10.86	9.48
September Total			431.871	10.00	9.48
10/02/00	1:00 PM	42.0	593.505	12.50	9.80
10/04/00	11:00 AM	44.0	636.477	15.57	10.05
10/06/00	9:45 AM	45.9	672.770	12.94	10.18
10/09/00	2:00 PM	49.1	720.145	10.36	10.19
10/11/00	12:00 PM	51.0	769.480	17.87	10.48
10/13/00	2:00 PM	53.1	790.295	6.94	10.34
10/16/00	12:00 PM	56.0	818.704	6.76	10.15
10/17/00	8:15 AM	56.8	824.000	4.36	10.05
10/19/00	1:30 PM	59.1	839.650	4.75	9.83
10/23/00	5:07 PM	63.2	866.650	4.52	9.44
10/25/00	9:25 AM	64.9	899.000	13.38	9.55
10/31/00	8:11 AM	70.8	964.000	7.59	9.37
10/31/00	11:59 PM	71.5	969.240 C	8.60	9.41
October Total			416.665	9.33	9.41

Note: "C" indicates calculated value (by interpolation).

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge		
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)
11/01/00	2:20 PM	72.1	974.000	8.39	9.38
11/03/00	8:47 AM	73.9	983.000	3.53	9.15
11/03/00	1:00 PM	74.0	983.369	1.46	9.12
11/06/00	11:00 AM	77.0	993.890	2.50	8.85
11/06/00	11:35 AM	77.0	994.000	3.14	8.85
11/13/00	10:30 AM	83.9	1079.435	8.53	8.82
11/20/00	11:32 AM	91.0	1230.000	14.85	9.32
11/20/00	1:00 PM	91.0	1231.539	17.49	9.33
11/30/00	11:59 PM	101.5	1389.128 C	10.21	9.50
November Total			419.887	9.41	9.50
12/04/00	1:27 PM	105.1	1443.000	11.11	9.54

Note: "C" indicates calculated value (by interpolation).

Viacom Inc.
11 Stanwix Street
Pittsburgh, PA. 15222-1384



January 9, 2001

Michael J. Ryan, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

**Re: Groundwater Treatment Plant, Effluent Sampling Data, NYSDEC Site 9-15-066,
Cheektowaga, New York**

Dear Mr. Ryan:

Enclosed is the laboratory data report for the groundwater treatment plant effluent sample collected on November 28, 2000 at New York State Department of Environmental Conservation (NYSDEC) Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This sample represents the November 2000 discharge monitoring for this treatment system.

As indicated in the monthly status report for this Site, the discharge pH in the November 28, 2000 sample exceeded the limited provided by NYSDEC's temporary discharge authorization. Examination of O&M records for the treatment plant suggest this elevated pH was likely an isolated incident. To reduce the likelihood of a reoccurrence, the operation and maintenance contractor has been instructed to carefully monitor the system pH (as measured in the equalization tank) and be attentive to the acid supply available on-site for treatment.

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Leo M. Brausch". The signature is fluid and cursive, with a long horizontal stroke at the end.

Leo M. Brausch
Consultant/Project Engineer

LMB:
Enclosure

cc: G. P. Sutton, P.E.

SEVERN

TRENT

SERVICES

December 18, 2000

Ms. Gina Senia
IT Corporation
200 Cooper Ave
Tonawanda, NY 14150

STL Buffalo

10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600

Fax: 716 691 7991

www.stl-inc.com

RE: Analytical Results

Dear Ms. Senia:

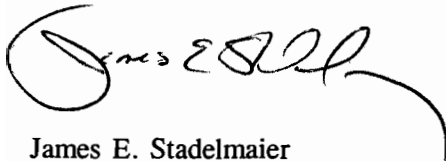
Please find enclosed analytical results concerning the sample recently submitted by your firm. The pertinent information regarding these analyses is listed below:

Site ID: Water Treatment Plant Startup
Matrix: Water
Sample Date: 11/27/00
Sample Receipt Date: 11/28/00

If you have any questions concerning these data, please contact Mr. James Stadelmaier, Program Manager, at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide IT Corporation with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo



James E. Stadelmaier
Program Manager



Susan L. Tinsmith
Laboratory Manager

JES/SLT/rtv
Enclosure

I.D. #A00-8587
#NY9A8288

This report contains 802 pages which are individually numbered.

000001

SAMPLE DATA SUMMARY PACKAGE

SEVERN

TRENT

SERVICES

STL Buffalo

CASE NARRATIVE

Laboratory Name: STL Buffalo

Laboratory Code: STL Buffalo

Quote Number: NY99-097

Sample Identifications: PGTP-EF-112700

METHODOLOGY

The specific methodologies employed in obtaining the enclosed analytical results are enclosed on the specific data tables. The method numbers presented refer to the following U.S. Environmental Protection Agency references:

- 40 CFR Part 136 "Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act" October 26, 1984 (Federal Register) United States Environmental Protection Agency.
- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846), Third Edition, Update III, December 1996, United States Environmental Protection Agency Office of Solid Waste.
- Analytical Services Protocol, NYSDEC, Doc. #0102, Vol. 1-10, Sept., 1989 with 12/91 and 12/95 rev. & updates.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

The cooler was received at a temperature of 4°C.



STL Buffalo

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Teknivent Datasystem and Analytical Information Management System (AIMS®) software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. Unedited quantitation reports have been submitted with this analytical data package.

All samples were preserved to a pH less than 2.

No deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Teknivent Datasystem and Analytical Information Management System (AIMS®) software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. Unedited quantitation reports have been submitted with this analytical data package.

All samples were extracted by separatory funnel instead of the required continuous liquid-liquid extraction method.

The Matrix Spike Blank, MSB46, exhibited surrogate recovery results above quality control limits for 2,4,6-Tribromophenol.

MSB46 exhibited spike recovery results above quality control limits for 1,2,4-Trichlorobenzene. The %RPD between MSB46 and MSBD46 was also outside quality control limits for 1,4-Dichlorobenzene.

METALS DATA

Sample PGTP-EF-112700 was analyzed at a dilution factor of 40 for Sodium due to the original results exceeding the linear range of the curve.

The %RPD between samples PGTP-EF-112700 and PGTP-EF-112700 MD was outside quality control limits for Sodium.

WET CHEMISTRY DATA

Sample PGTP-EF-101100 was analyzed at a dilution factor of 100 for Chloride due to the original result exceeding the linear range of the curve.



STL Buffalo

WET CHEMISTRY DATA

Sample PGTP-EF-101100 was reanalyzed for Alkalinity to confirm the original result.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or her designee, as verified by the following signature."

A handwritten signature in cursive script, appearing to read "Susan L. Tinsmith".

Susan L. Tinsmith
Laboratory Director

Date

12/20/02

This data report shall not be reproduced, except in full, without the written authorization of STL Buffalo.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS					
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	WATER QUALITY
PGTP-EF-112700	A0858701	ASP95	ASP95	-	-	SW8463	CFR136

NYSDEC-1

000006

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
PGTP-EF-112700	WATER	11/27/2000	11/28/2000	-	12/05/2000

NYSDEC-2

000007

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B\N-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
PGTP-EF-112700	WATER	11/27/2000	11/28/2000	11/29/2000	12/01/2000

NYSDEC-3

000008

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	METALS REQUESTED	DATE RECEIVED AT LAB	DATE DIGESTED	DATE ANALYZED
PGTP-EF-112700	WATER	TCAT	11/28/2000	11/29/2000	11/30-12/01/2000

NYSDEC-5

000009

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
PGTP-EF-112700	WATER	ASP95	SEPF	AS REQUIRED	AS REQUIRED

NYSDEC-6

000010

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
PGTP-EF-112700	WATER	SW8463	SW8463	AS REQUIRED	AS REQUIRED

NYSDEC-7

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P"
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- K Indicates the post digestion spike recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- M Indicates duplicate injection results exceeded quality control limits.
- W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- * Indicates analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

I T CORPORATION
 ASP95-4 - LOW CONCENTRATION VOLATILES
 ANALYSIS DATA SHEET

000012

Client No.

PGTP-EF-112700

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0858701

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: L5096.RR

Level: (low/med) LOW Date Samp/Recv: 11/27/2000 11/28/2000

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 12/05/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3-----	Chloromethane	0.3	J
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	14	
75-15-0-----	Carbon Disulfide	0.8	J
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U

I T CORPORATION
 ASP95-4 - LOW CONCENTRATION VOLATILES
 ANALYSIS DATA SHEET

000013'

Client No.

PGIP-EF-112700

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0858701

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: L5096.RR

Level: (low/med) LOW Date Samp/Recv: 11/27/2000 11/28/2000

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 12/05/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	UG/L	Q
100-42-5-----	Styrene	0.2	J
1330-20-7-----	Total Xylenes	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

I T CORPORATION
ASP95-4 - LOW CONCENTRATION VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000014

Client No.

PGIP-EF-112700

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0858701

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: L5096.RR

Level: (low/med) LOW Date Samp/Recv: 11/27/2000 11/28/2000

% Moisture: not dec. _____ Date Analyzed: 12/05/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

I T CORPORATION
 ASP 95 - SEMIVOLATILES
 ANALYSIS DATA SHEET

000015

Client No.

PGIP-EF-112700

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0858701

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: Z45250.RR

Level: (low/med) LOW Date Samp/Recv: 11/27/2000 11/28/2000

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/01/2000

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
86-30-6	N-nitrosodiphenylamine	9		U
621-64-7	N-Nitroso-Di-n-propylamine	9		U
88-74-4	2-Nitroaniline	24		U
99-09-2	3-Nitroaniline	24		U
100-01-6	4-Nitroaniline	24		U
91-94-1	3,3'-Dichlorobenzidine	9		U
91-58-7	2-Chloronaphthalene	9		U
132-64-9	Dibenzofuran	9		U
95-50-1	1,2-Dichlorobenzene	9		U
541-73-1	1,3-Dichlorobenzene	9		U
106-46-7	1,4-Dichlorobenzene	9		U
118-74-1	Hexachlorobenzene	9		U
87-68-3	Hexachlorobutadiene	9		U
67-72-1	Hexachloroethane	9		U
77-47-4	Hexachlorocyclopentadiene	9		U
91-57-6	2-Methylnaphthalene	9		U
120-82-1	1,2,4-Trichlorobenzene	9		U
106-47-8	4-Chloroaniline	9		U
85-68-7	Butyl benzyl phthalate	9		U
117-81-7	Bis(2-ethylhexyl) phthalate	9		U
84-66-2	Diethyl phthalate	9		U
131-11-3	Dimethyl phthalate	9		U
84-74-2	Di-n-butyl phthalate	9		U
117-84-0	Di-n-octyl phthalate	9		U
86-74-8	Carbazole	9		U
121-14-2	2,4-Dinitrotoluene	9		U
606-20-2	2,6-Dinitrotoluene	9		U
78-59-1	Isophorone	9		U
98-95-3	Nitrobenzene	9		U
208-96-8	Acenaphthylene	9		U
83-32-9	Acenaphthene	9		U
120-12-7	Anthracene	9		U

I T CORPORATION
 ASP 95 - SEMIVOLATILES
 ANALYSIS DATA SHEET

000016

Client No.

PGIP-EF-112700

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0858701

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: Z45250.RR

Level: (low/med) LOW Date Samp/Recv: 11/27/2000 11/28/2000

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/01/2000

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

56-55-3-----	Benzo (a) anthracene	9	U
50-32-8-----	Benzo (a) pyrene	9	U
205-99-2-----	Benzo (b) fluoranthene	9	U
191-24-2-----	Benzo (ghi) perylene	9	U
207-08-9-----	Benzo (k) fluoranthene	9	U
218-01-9-----	Chrysene	9	U
53-70-3-----	Dibenzo (a, h) anthracene	9	U
206-44-0-----	Fluoranthene	9	U
86-73-7-----	Fluorene	9	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	9	U
91-20-3-----	Naphthalene	9	U
85-01-8-----	Phenanthrene	9	U
129-00-0-----	Pyrene	9	U
59-50-7-----	4-Chloro-3-methylphenol	9	U
95-57-8-----	2-Chlorophenol	9	U
120-83-2-----	2,4-Dichlorophenol	9	U
105-67-9-----	2,4-Dimethylphenol	9	U
51-28-5-----	2,4-Dinitrophenol	24	U
534-52-1-----	4,6-Dinitro-2-methylphenol	24	U
95-48-7-----	2-Methylphenol	9	U
106-44-5-----	4-Methylphenol	9	U
88-75-5-----	2-Nitrophenol	9	U
100-02-7-----	4-Nitrophenol	24	U
87-86-5-----	Pentachlorophenol	24	U
108-95-2-----	Phenol	9	U
95-95-4-----	2,4,5-Trichlorophenol	24	U
88-06-2-----	2,4,6-Trichlorophenol	9	U
111-44-4-----	Bis(2-chloroethyl) ether	9	U
108-60-1-----	2,2'-Oxybis(1-Chloropropane)	9	U
111-91-1-----	Bis(2-chloroethoxy) methane	9	U
101-55-3-----	4-Bromophenyl phenyl ether	9	U
7005-72-3-----	4-Chlorophenyl phenyl ether	9	U

I T CORPORATION
ASP 95 - SEMIVOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000017

Client No.

PGTP-EF-112700

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0858701

Sample wt/vol: 1060.0 (g/mL) ML Lab File ID: Z45250.RR

Level: (low/med) LOW Date Samp/Recv: 11/27/2000 11/28/2000

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/01/2000

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 3

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	OXYGENATED CMPD.	4.41	4	BJ
2.	BUTYLHEXADECANOATE	19.80	84	BJ
3. 123-95-5	OCTADECANOIC ACID, BUTYL ESTR	20.80	81	BJN

IT CORPORATION

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

PGTP-EF-112700

Contract: NY99-097Lab Code: STLBFLOCase No.: 8288

SAS No.: _____

SDG NO.: 8587Matrix (soil/water): WATERLab Sample ID: AD019449Level (low/med): LOWDate Received: 11/28/00

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	45.3			P
7440-70-2	Calcium	171000		E	P
7440-47-3	Chromium	1.2	U		P
7439-89-6	Iron	1320			P
7439-96-5	Manganese	116			P
7440-09-7	Potassium	46000		E	P
7440-23-5	Sodium	2000000		*	P

Color Before: COLORLESSClarity Before: CLEAR

Texture: _____

Color After: COLORLESSClarity After: CLEAR

Artifacts: _____

Comments: _____

I T Corporation
Wet Chemistry Analysis

000019

Client Sample No.

PGTP-EF-112700

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WATER

Lab Sample ID: A0858701

% Solids: 0.0

Date Samp/Recv: 11/27/2000 11/28/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Chloride	MG/L	2670				325.2	11/30/2000
Fluoride	MG/L	0.50	U			300.0	12/06/2000
Nitrate	MG/L	0.050	U			353.2	11/29/2000
pH	S.U.	12.7				150.1	11/28/2000
Sulfate	MG/L	192				300.0	12/06/2000
Total Alkalinity	MG/L	52.7				310.1	11/29/2000
Total Dissolved Solids	MG/L	4400				160.1	11/29/2000
Total Recoverable Oil & Grease	MG/L	9.2				413.1	11/30/2000
Total Suspended Solids	MG/L	4.0				160.2	12/01/2000

Comments:

I T Corporation
Wet Chemistry Analysis

000020

Client Sample No.

PGTP-EF-112700

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WATER

Lab Sample ID: A0858701RE

% Solids: 0.0

Date Samp/Recv: 11/27/2000 11/28/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Alkalinity	MG/L	50.2				310.1	12/01/2000

Comments:

I T CORPORATION
 ASP95-4 - LOW CONCENTRATION VOLATILES
 WATER SURROGATE RECOVERY

000021

Lab Name: SIL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

	Client Sample ID	BFB %REC #							TOT OUT
1	MSB68	98							0
2	PGIP-EF-112700	102							0
3	VELK68	99							0
4	Volatile Holding Blk	101							0

QC LIMITS

BFB = p-Bromofluorobenzene

(80-120)

- # Column to be used to flag recovery values
- * Values outside of contract required QC limits
- D Surrogates diluted out

I T CORPORATION
 ASP 95 - SEMIVOLATILES
 WATER SURROGATE RECOVERY

000022

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Client Sample ID	2CP %REC #	2FP %REC #	DCB %REC #	FBP %REC #	NBZ %REC #	PHL %REC #	TBP %REC #	TPH %REC #	TOT OUT
1. MSB46	58	31	49	62	68	18	131 *	73	1
2. MSBD46	56	31	51	57	65	18	71	80	0
3. PGTP-EF-112700	50	26	48	58	56	16	80	73	0
4. SELK46	53	29	47	60	66	17	64	65	0

QC LIMITS

2CP	= 2-Chlorophenol-d4	(33-110)
2FP	= 2-Fluorophenol	(21-110)
DCB	= 1,2-Dichlorobenzene-d4	(16-110)
FBP	= 2-Fluorobiphenyl	(43-116)
NBZ	= Nitrobenzene-D5	(35-114)
PHL	= Phenol-D5	(10-110)
TBP	= 2,4,6-Tribromophenol	(10-123)
TPH	= p-Terphenyl-d14	(33-141)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

I T CORPORATION
 ASP95-4 - LOW CONCENTRATION VOLATILES
 WATER MATRIX SPIKE BLANK RECOVERY

000023

Lab Name: STL Buffalo

Contract: _____

Lab Samp ID: A0858703

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix Spike - Client Sample No.: MS068
~~VBK68~~

MP
12/6/2000

COMPOUND	SPIKE ADDED UG/L	MSB CONCENTRATION UG/L	MSB % REC #	QC LIMITS REC.
Vinyl chloride	5.0	4.4	90	60 - 140
1,2-Dichloroethane	5.0	4.9	98	60 - 140
Carbon Tetrachloride	5.0	4.6	94	60 - 140
1,2-Dichloropropane	5.0	4.4	90	60 - 140
cis-1,3-Dichloropropene	5.0	4.0	81	60 - 140
Trichloroethene	5.0	4.6	92	60 - 140
1,1,2-Trichloroethane	5.0	3.8	77	60 - 140
Benzene	5.0	4.5	91	60 - 140
Bromoform	5.0	3.8	77	60 - 140
Tetrachloroethene	5.0	4.4	90	60 - 140
1,2-Dibromoethane	5.0	3.9	79	60 - 140
1,4-Dichlorobenzene	5.0	4.5	91	60 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike recovery: 0 out of 12 outside limits

Comments: _____

I T CORPORATION
 ASP 95 - SEMIVOLATILES
 WATER MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

000024

Lab Name: STL Buffalo

Contract: _____

Lab Samp ID: A0B0942803

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix Spike - Client Sample No.: SBLK46

*MSB46/MSD46
 mtr 12/6/200*

COMPOUND	SPIKE ADDED UG/L	MSB CONCENTRATION UG/L	MSB % REC #	QC LIMITS REC.
Phenol	75.0	13.9	18	12 - 110
2-Chlorophenol	75.0	45.7	61	27 - 123
1,4-Dichlorobenzene	50.0	18.2	36	36 - 97
N-Nitroso-Di-n-propyl (1)	50.0	33.2	66	41 - 116
1,2,4-Trichlorobenzene	50.0	17.9	36 *	39 - 98
4-Chloro-3-methylphenol	75.0	57.1	76	23 - 97
Acenaphthene	50.0	29.1	58	46 - 118
4-Nitrophenol	75.0	16.5	22	10 - 80
2,4-Dinitrotoluene	50.0	37.7	76	24 - 96
Pentachlorophenol	75.0	68.8	92	9 - 103
Pyrene	50.0	44.7	90	26 - 127

COMPOUND	SPIKE ADDED UG/L	MSBD CONCENTRATION UG/L	MSBD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Phenol	75.0	14.3	19	5	42	12 - 110
2-Chlorophenol	75.0	45.1	60	2	40	27 - 123
1,4-Dichlorobenzene	50.0	24.3	49	30 *	28	36 - 97
N-Nitroso-Di-n-propylami	50.0	31.7	63	5	38	41 - 116
1,2,4-Trichlorobenzene	50.0	23.5	47	26	28	39 - 98
4-Chloro-3-methylphenol	75.0	64.0	85	11	42	23 - 97
Acenaphthene	50.0	32.0	64	10	31	46 - 118
4-Nitrophenol	75.0	16.5	22	0	50	10 - 80
2,4-Dinitrotoluene	50.0	37.4	75	1	38	24 - 96
Pentachlorophenol	75.0	73.2	98	6	50	9 - 103
Pyrene	50.0	47.6	95	5	31	26 - 127

(1) N-Nitroso-Di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 11 outside limits

Spike recovery: 1 out of 22 outside limits

Comments: _____

STL BUFFALO

IT CORPORATION

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DUPLICATES

SAMPLE NO.

PGTP-EF-112700D

Contract: NY99-097Lab Code: STLBFLOCase No.: 8288

SAS No.: _____

SDG NO.: 8587Matrix (soil/water): WATERLevel (low/med): LOW% Solids for Sample: 0.0% Solids for Duplicate: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Cadmium		45.2800		47.9300		5.7		P
Calcium		170687.5000		180103.9063		5.4		P
Chromium		1.2000	U	1.2000	U			P
Iron		1322.8500		1385.7300		4.6		P
Manganese		116.0000		122.0500		5.1		P
Potassium		46034.6016		48383.8086		5.0		P
Sodium		1995106.0000		1238022.0000		46.8	*	P

IT CORPORATION

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

PGTP-EF-112700S

Contract: NY99-097

Lab Code: STLBFLO Case No.: 8288 SAS No.: _____ SDG NO.: 8587

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Cadmium	75 - 125	254.6800	45.2800	200.00	104.7		P
Calcium		184271.2031	170687.5000	10000.00	135.8		P
Chromium	75 - 125	208.6700	1.2000 U	200.00	104.3		P
Iron	75 - 125	1770.0500	1322.8500	400.00	111.8		P
Manganese	75 - 125	325.9000	116.0000	200.00	104.9		P
Potassium		59632.9297	46034.6016	10000.00	136.0		P
Sodium		2069836.0000	1995106.0000	10000.00	747.3		P

Comments: _____

IT CORPORATION
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

PGTP-EF-112700A

Contract: NY99-097

Lab Code: STLBFLO Case No.: 8288 SAS No.: _____ SDG NO.: 8587

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Cadmium		250.26	45.28	200.0	102.5		P
Calcium		182558.70	170687.50	10000.0	118.7		P
Chromium		208.54	1.20 U	200.0	104.3		P
Iron		1750.92	1322.85	400.0	107.0		P
Manganese		324.65	116.00	200.0	104.3		P
Potassium		59332.58	46034.60	10000.0	133.0		P
Sodium		2866666.00	1995106.00	400000	217.9		P

Comments: _____

Client Sample ID: Method Blank
Lab Sample ID: A0B0942402LCS
A0B0942401

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
WET CHEMISTRY ANALYSIS METHOD 353.2 - NITRATE	MG/L	2.41	2.5	96	90-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

Client Sample ID: Method Blank
Lab Sample ID: A080945002LCS
A080945001

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
WET CHEMISTRY ANALYSIS METHOD 310.1 - TOTAL ALKALINITY	MG/L	435.0	400	107	83-118

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

000029

Client Sample ID: Method Blank
Lab Sample ID: A080946502LCS
A080946501

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
WET CHEMISTRY ANALYSIS METHOD 325.2 - CHLORIDE	MG/L	51.37	50.0	102	85-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

000030

Client Sample ID: Method Blank
Lab Sample ID: A080948802LCS
A080948801

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
WET CHEMISTRY ANALYSIS METHOD 413.1 - TOTAL RECOVERABLE OIL &	MG/L	526.2	538	97	81-115

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

000031

Client Sample ID: Method Blank
Lab Sample ID: A0B0951002LCS
A0B0951001

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
WET CHEMISTRY ANALYSIS METHOD 310.1 - TOTAL ALKALINITY	MG/L	392.3	400	97	83-118

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

000032

STL Buffalo

Client Sample ID: Method Blank
Lab Sample ID: A0B0958402LCS
A0B0958401

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
WET CHEMISTRY ANALYSIS					
METHOD 300.0 - SULFATE	MG/L	49.12	50.0	98	89-108
METHOD 340.2 - FLUORIDE	MG/L	5.04	5.0	100	90-108

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Calculated

000033

I T CORPORATION
ASP95-4 - LOW CONCENTRATION VOLATILES
METHOD BLANK SUMMARY

000034

Client No.

VBLK68

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: L5093.RR Lab Sample ID: A0858703

Date Analyzed: 12/05/2000 Time Analyzed: 10:15

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: I50L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
1	MSB68	A0858704	L5094.RR	10:46
2	PGTP-EF-112700	A0858701	L5096.RR	11:48
3	Volatile Holding Blk	A0858702	L5095.RR	11:17

Comments: _____

I T CORPORATION
 ASP95-4 - LOW CONCENTRATION VOLATILES
 ANALYSIS DATA SHEET

000035

Client No.

VBLK68

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0858703

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: L5093.RR

Level: (low/med) LOW Date Samp/Recv: _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 12/05/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	UG/L	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene chloride	2	U
67-64-1-----	Acetone	5	U
75-15-0-----	Carbon Disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5---	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6---	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-88-3-----	Toluene	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U

I T CORPORATION
 ASP95-4 - LOW CONCENTRATION VOLATILES
 ANALYSIS DATA SHEET

000036

Client No.

VBLK68

Lab Name: STL Buffalo Contract: _____

Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0858703

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: L5093.RR

Level: (low/med) LOW Date Samp/Recv: _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 12/05/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
100-42-5-----	Styrene		1	U
1330-20-7-----	Total Xylenes		1	U
541-73-1-----	1,3-Dichlorobenzene		1	U
106-46-7-----	1,4-Dichlorobenzene		1	U
95-50-1-----	1,2-Dichlorobenzene		1	U
96-12-8-----	1,2-Dibromo-3-chloropropane		1	U
120-82-1-----	1,2,4-Trichlorobenzene		1	U

I T CORPORATION
ASP95-4 - LOW CONCENTRATION VOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000037

Client No.

VBLK68

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0858703

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: L5093.RR

Level: (low/med) LOW Date Samp/Recv: _____

% Moisture: not dec. _____ Date Analyzed: 12/05/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

I T CORPORATION
ASP 95 - SEMIVOLATILES
METHOD BLANK SUMMARY

000038

Client No.

SBLK46

Lab Name: STL Buffalo Contract: _____
Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____
Lab File ID: Z45253.RR Lab Sample ID: A0B0942803
Instrument ID: I50Z-A Date Extracted: 11/29/2000
Matrix: (soil/water) WATER Date Analyzed: 12/01/2000
Level: (low/med) LOW Time Analyzed: 12:02

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	MSB46	A0B0942801	Z45251.RR	12/01/2000
2	MSBD46	A0B0942802	Z45252.RR	12/01/2000
3	PGTP-EF-112700	A0858701	Z45250.RR	12/01/2000

Comments: _____

I T CORPORATION
 ASP 95 - SEMIVOLATILES
 ANALYSIS DATA SHEET

000039

Client No.

SBLK46

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0B0942803

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z45253.RR

Level: (low/med) LOW Date Samp/Recv: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/01/2000

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	UG/L	Q
86-30-6-----	N-nitrosodiphenylamine	10	U
621-64-7-----	N-Nitroso-Di-n-propylamine	10	U
88-74-4-----	2-Nitroaniline	25	U
99-09-2-----	3-Nitroaniline	25	U
100-01-6-----	4-Nitroaniline	25	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
91-58-7-----	2-Chloronaphthalene	10	U
132-64-9-----	Dibenzofuran	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
67-72-1-----	Hexachloroethane	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
91-57-6-----	2-Methylnaphthalene	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
106-47-8-----	4-Chloroaniline	10	U
85-68-7-----	Butyl benzyl phthalate	10	U
117-81-7-----	Bis(2-ethylhexyl) phthalate	10	U
84-66-2-----	Diethyl phthalate	10	U
131-11-3-----	Dimethyl phthalate	10	U
84-74-2-----	Di-n-butyl phthalate	10	U
117-84-0-----	Di-n-octyl phthalate	10	U
86-74-8-----	Carbazole	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
78-59-1-----	Isophorone	10	U
98-95-3-----	Nitrobenzene	10	U
208-96-8-----	Acenaphthylene	10	U
83-32-9-----	Acenaphthene	10	U
120-12-7-----	Anthracene	10	U

I T CORPORATION
ASP 95 - SEMIVOLATILES
ANALYSIS DATA SHEET

000040

Client No.

SBLK46

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0B0942803

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z45253.RR

Level: (low/med) LOW Date Samp/Recv: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/01/2000

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

56-55-3-----	Benzo (a) anthracene		10	U
50-32-8-----	Benzo (a) pyrene		10	U
205-99-2-----	Benzo (b) fluoranthene		10	U
191-24-2-----	Benzo (ghi) perylene		10	U
207-08-9-----	Benzo (k) fluoranthene		10	U
218-01-9-----	Chrysene		10	U
53-70-3-----	Dibenzo (a, h) anthracene		10	U
206-44-0-----	Fluoranthene		10	U
86-73-7-----	Fluorene		10	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene		10	U
91-20-3-----	Naphthalene		10	U
85-01-8-----	Phenanthrene		10	U
129-00-0-----	Pyrene		10	U
59-50-7-----	4-Chloro-3-methylphenol		10	U
95-57-8-----	2-Chlorophenol		10	U
120-83-2-----	2,4-Dichlorophenol		10	U
105-67-9-----	2,4-Dimethylphenol		10	U
51-28-5-----	2,4-Dinitrophenol		25	U
534-52-1-----	4,6-Dinitro-2-methylphenol		25	U
95-48-7-----	2-Methylphenol		10	U
106-44-5-----	4-Methylphenol		10	U
88-75-5-----	2-Nitrophenol		10	U
100-02-7-----	4-Nitrophenol		25	U
87-86-5-----	Pentachlorophenol		25	U
108-95-2-----	Phenol		10	U
95-95-4-----	2,4,5-Trichlorophenol		25	U
88-06-2-----	2,4,6-Trichlorophenol		10	U
111-44-4-----	Bis(2-chloroethyl) ether		10	U
108-60-1-----	2,2'-Oxybis(1-Chloropropane)		10	U
111-91-1-----	Bis(2-chloroethoxy) methane		10	U
101-55-3-----	4-Bromophenyl phenyl ether		10	U
7005-72-3-----	4-Chlorophenyl phenyl ether		10	U

I T CORPORATION
ASP 95 - SEMIVOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000041

Client No.

SBLK46

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A0B0942803

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: Z45253.RR

Level: (low/med) LOW Date Samp/Recv: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/01/2000

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 3

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	OXYGENATED CPD.	4.41	4	J
2.	BUTYLHEXADECANOATE	19.80	80	J
3. 123-95-5	OCTADECANOIC ACID.BUTYL ESTR	20.80	75	JN

IT CORPORATION

-3-

BLANKS

Contract: NY99-097Lab Code: STLBFLOCase No.: 8288

SAS No.: _____

SDG NO.: 8587Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Cadmium	0.6	U	0.6	U	0.6	U	0.6	U	0.600	U	P
Calcium	25.0	U	25.0	U	25.0	U	25.0	U	25.000	U	P
Chromium	1.2	U	1.2	U	1.2	U	1.2	U	1.200	U	P
Iron	20.0	U	20.0	U	20.0	U	20.0	U	20.000	U	P
Manganese	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Potassium	200.0	U	200.0	U	200.0	U	200.0	U	200.000	U	P
Sodium	310.0	U	310.0	U	310.0	U	310.0	U	310.000	U	P

IT CORPORATION

-3-

BLANKS

Contract: NY99-097Lab Code: STLBFLO Case No.: 8288 SAS No.: _____ SDG NO.: 8587Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Cadmium			0.6	U	0.6	U	0.6	U			P
Calcium			25.0	U	25.0	U	25.0	U			P
Chromium			1.2	U	1.2	U	1.2	U			P
Iron			20.0	U	20.0	U	20.0	U			P
Manganese			0.8	U	0.8	U	0.8	U			P
Potassium			200.0	U	200.0	U	200.0	U			P
Sodium			310.0	U	310.0	U	310.0	U			P

IT CORPORATION

-3-

BLANKS

Contract: NY99-097

Lab Code: STLBFLO Case No.: 8288 SAS No.: _____ SDG NO.: 8587

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L) C	Continuing Calibration Blank (ug/L)						Preparation Blank C	M
		1 C	2 C	3 C	4 C	5 C	6 C		
Sodium	310.0 U	310.0 U	310.0 U	310.0 U	310.0 U			P	

IT CORPORATION

-3-

BLANKS

Contract: NY99-097

Lab Code: STLBFLO Case No.: 8288 SAS No.: _____ SDG NO.: 8587

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Sodium			310.0	U	310.0	U	310.0	U			P

IT CORPORATION

-3-

BLANKS

Contract: NY99-097

Lab Code: STLBFLO Case No.: 8288 SAS No.: _____ SDG NO.: 8587

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Sodium			310.0	U							P

I T CORPORATION
WET CHEMISTRY
METHOD BLANK SUMMARY

000047

Client No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A0B0942402 Lab File ID: _____

Matrix: (soil/water) WATER Instrument ID (1): _____

Date Analyzed (1): 11/29/2000 Time Analyzed (1): 15:00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	TIME ANALYZED
1	LCS	A0B0942401	11/29/2000	15:00
2	PGTP-EF-112700	A0858701	11/29/2000	15:00

Comments: _____

I T Corporation
Wet Chemistry Analysis

000048

Client Sample No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WATER

Lab Sample ID: AOB0942402

% Solids: 0.0

Date Samp/Recv: _____

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Nitrate	MG/L	0.050	U			353.2	11/29/2000

Comments:

I T CORPORATION
WET CHEMISTRY
METHOD BLANK SUMMARY

000049

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____
Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____
Lab Sample ID: A0B0943602 Lab File ID: _____
Matrix: (soil/water) WATER Instrument ID (1): _____
Date Analyzed (1): 11/29/2000 Time Analyzed (1): 19:00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	TIME ANALYZED
1	LCS	A0B0943601	11/29/2000	19:00
2	PGTP-EF-112700	A0858701	11/29/2000	19:00

Comments: _____

I T Corporation
Wet Chemistry Analysis

000050

Client Sample No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECN

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WATER

Lab Sample ID: A0B0943602

% Solids: 0.0

Date Samp/Recv: _____

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Dissolved Solids	MG/L	10	U			160.1	11/29/2000

Comments:

I T CORPORATION
WET CHEMISTRY
METHOD BLANK SUMMARY

000051
Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____
Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____
Lab Sample ID: A0B0945002 Lab File ID: _____
Matrix: (soil/water) WATER Instrument ID (1): _____
Date Analyzed (1): 11/29/2000 Time Analyzed (1): 18:05

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	TIME ANALYZED
1	LCS	A0B0945001	11/29/2000	18:05
2	PGTP-EF-112700	A0858701	11/29/2000	18:05

Comments: _____

I T Corporation
Wet Chemistry Analysis

000052

Client Sample No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WATER

Lab Sample ID: A0B0945002

% Solids: 0.0

Date Samp/Recv: _____

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Alkalinity	MG/L	5.0	U			310.1	11/29/2000

Comments:

I T CORPORATION
WET CHEMISTRY
METHOD BLANK SUMMARY

000053

Client No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECN

Case No.: _____

SAS No.: _____

SDG No.: _____

Lab Sample ID: A0B0946502

Lab File ID: _____

Matrix: (soil/water) WATER

Instrument ID (1): _____

Date Analyzed (1): 11/30/2000

Time Analyzed (1): 15:30

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	TIME ANALYZED
1	LCS	A0B0946501	11/30/2000	15:30
2	PGTP-EF-112700	A0858701	11/30/2000	15:30

Comments: _____

I T Corporation
Wet Chemistry Analysis

000054
Client Sample No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECN

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WATER

Lab Sample ID: A0B0946502

% Solids: 0.0

Date Samp/Recv: _____

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Chloride	MG/L	1.0	U			325.2	11/30/2000

Comments:

I T CORPORATION
WET CHEMISTRY
METHOD BLANK SUMMARY

000055

Client No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A0B0948802 Lab File ID: _____

Matrix: (soil/water) WATER Instrument ID (1): _____

Date Analyzed (1): 11/30/2000 Time Analyzed (1): 10:00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	TIME ANALYZED
1	LCS	A0B0948801	11/30/2000	10:00
2	PGTP-EF-112700	A0858701	11/30/2000	10:00

Comments: _____

I T Corporation
Wet Chemistry Analysis

000056

Client Sample No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WATER

Lab Sample ID: AOB0948802

% Solids: 0.0

Date Samp/Recv: _____

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Recoverable Oil & Grease	MG/L	5.0	U			413.1	11/30/2000

Comments:

I T CORPORATION
WET CHEMISTRY
METHOD BLANK SUMMARY

000057
Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____
Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____
Lab Sample ID: A0B0951002 Lab File ID: _____
Matrix: (soil/water) WATER Instrument ID (1): _____
Date Analyzed (1): 12/01/2000 Time Analyzed (1): 14:55

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	TIME ANALYZED
1	LCS	A0B0951001	12/01/2000	14:55
2	PGTP-EF-112700	A0858701RE	12/01/2000	14:55

Comments: _____

I T Corporation
Wet Chemistry Analysis

000058

Client Sample No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WATER

Lab Sample ID: A0B0951002

% Solids: 0.0

Date Samp/Recv: _____

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Alkalinity	MG/L	5.0	U			310.1	12/01/2000

Comments:

I T CORPORATION
WET CHEMISTRY
METHOD BLANK SUMMARY

000059

Client No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A0B0951202 Lab File ID: _____

Matrix: (soil/water) WATER Instrument ID (1): _____

Date Analyzed (1): 12/01/2000 Time Analyzed (1): 21:00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	TIME ANALYZED
	=====	=====	=====	=====
1	LCS	A0B0951201	12/01/2000	21:00
2	PGTP-EF-112700	A0858701	12/01/2000	21:00

Comments: _____

I T Corporation
Wet Chemistry Analysis

000060

Client Sample No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECN

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WATER

Lab Sample ID: A0B0951202

% Solids: 0.0

Date Samp/Recv: _____

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Suspended Solids	MG/L	4.0	U			160.2	12/01/2000

Comments:

I T CORPORATION
WET CHEMISTRY
METHOD BLANK SUMMARY

000061

Client No.

Method Blank

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A0B0958402 Lab File ID: _____

Matrix: (soil/water) WATER Instrument ID (1): _____

Date Analyzed (1): 12/06/2000 Time Analyzed (1): 05:28

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	TIME ANALYZED
1	LCS	A0B0958401	12/06/2000	05:28
2	PGTP-EF-112700	A0858701	12/06/2000	05:28

Comments: _____

I T Corporation
Wet Chemistry Analysis

000062

Client Sample No.

Method Blank

Lab Name: SIL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WATER

Lab Sample ID: A0B0958402

% Solids: 0.0

Date Samp/Recv: _____

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Fluoride _____	MG/L	0.50	U			300.0	12/06/2000
Sulfate _____	MG/L	2.0	U			300.0	12/06/2000

Comments:

I T CORPORATION
 ASP95-4 - LOW CONCENTRATION VOLATILES
 VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000063

Lab Name: STL Buffalo Contract: _____ Labsampid: A0C0004474
 Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): L5092.RR Date Analyzed: 12/05/2000
 Instrument ID: I50L Time Analyzed: 09:18
 GC Column(1): DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

	IS1 (CBZ)		IS2 (DCB)		IS3 (DFB)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	819653	17.14	438635	20.81	975494	11.93
UPPER LIMIT	1147514	17.47	614089	21.14	1365692	12.26
LOWER LIMIT	491792	16.81	263181	20.48	585296	11.60
=====						
CLIENT SAMPLE						
=====						
1 MSB68	816300	17.14	392882	20.85	888989	11.97
2 PGTP-EF-112700	802780	17.15	403063	20.83	876069	11.95
3 VBLK68	897771	17.18	425562	20.87	963140	11.98
4 Volatile Holding Blk	791783	17.14	385273	20.82	852782	11.95

AREA UNIT RT
 QC LIMITS QC LIMITS

IS1 (CBZ) = Chlorobenzene-D5 (60-140) -0.33 / +0.33 min
 IS2 (DCB) = 1,4-Dichlorobenzene-D4 (60-140) -0.33 / +0.33 min
 IS3 (DFB) = 1,4-Difluorobenzene (60-140) -0.33 / +0.33 min

Column to be used to flag recovery values
 * Values outside of contract required QC limits

I T CORPORATION
 ASP 95 - SEMIVOLATILES
 SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000064

Lab Name: STL Buffalo Contract: _____ Labsampid: AOC0004332
 Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): Z45248.RR Date Analyzed: 12/01/2000
 Instrument ID: I50Z-A Time Analyzed: 09:08

	IS1 (ANT) AREA #	RT #	IS2 (CRY) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	298221	14.68	560795	21.43	129016	7.62
UPPER LIMIT	596442	15.18	1121590	21.93	258032	8.12
LOWER LIMIT	149111	14.18	280398	20.93	64508	7.12
CLIENT SAMPLE						
1 MSB46	310008	14.68	421654	21.43	136752	7.62
2 MSBD46	225927	14.68	402512	21.43	95874	7.62
3 PGTP-EF-112700	296149	14.68	672394	21.43	129226	7.62
4 SELK46	227281	14.68	482125	21.43	111837	7.62

AREA UNIT
QC LIMITS

RT
QC LIMITS

IS1 (ANT) = Acenaphthene-D10 (50-200) -0.50 / +0.50 min
 IS2 (CRY) = Chrysene-D12 (50-200) -0.50 / +0.50 min
 IS3 (DCB) = 1,4-Dichlorobenzene-D4 (50-200) -0.50 / +0.50 min

Column to be used to flag recovery values
 * Values outside of contract required QC limits

000066

SAMPLE DATA PACKAGE

SDG NARRATIVE



STL Buffalo

CASE NARRATIVE

Laboratory Name: STL Buffalo

Laboratory Code: STL Buffalo

Quote Number: NY99-097

Sample Identifications: PGTP-EF-112700

METHODOLOGY

The specific methodologies employed in obtaining the enclosed analytical results are enclosed on the specific data tables. The method numbers presented refer to the following U.S. Environmental Protection Agency references:

- 40 CFR Part 136 "Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act" October 26, 1984 (Federal Register) United States Environmental Protection Agency.
- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846), Third Edition, Update III, December 1996, United States Environmental Protection Agency Office of Solid Waste.
- Analytical Services Protocol, NYSDEC, Doc. #0102, Vol. 1-10, Sept., 1989 with 12/91 and 12/95 rev. & updates.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

The cooler was received at a temperature of 4°C.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Teknivent Datasystem and Analytical Information Management System (AIMS®) software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. Unedited quantitation reports have been submitted with this analytical data package.

All samples were preserved to a pH less than 2.

No deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Teknivent Datasystem and Analytical Information Management System (AIMS®) software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. Unedited quantitation reports have been submitted with this analytical data package.

All samples were extracted by separatory funnel instead of the required continuous liquid-liquid extraction method.

The Matrix Spike Blank, MSB46, exhibited surrogate recovery results above quality control limits for 2,4,6-Tribromophenol.

MSB46 exhibited spike recovery results above quality control limits for 1,2,4-Trichlorobenzene. The %RPD between MSB46 and MSBD46 was also outside quality control limits for 1,4-Dichlorobenzene.

METALS DATA

Sample PGTP-EF-112700 was analyzed at a dilution factor of 40 for Sodium due to the original results exceeding the linear range of the curve.

The %RPD between samples PGTP-EF-112700 and PGTP-EF-112700 MD was outside quality control limits for Sodium.

WET CHEMISTRY DATA

Sample PGTP-EF-101100 was analyzed at a dilution factor of 100 for Chloride due to the original result exceeding the linear range of the curve.



STL Buffalo

WET CHEMISTRY DATA

Sample PGTP-EF-101100 was reanalyzed for Alkalinity to confirm the original result.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or her designee, as verified by the following signature."

A handwritten signature in cursive script that reads "Susan L. Tinsmith".

Susan L. Tinsmith
Laboratory Director

Date

12/20/00

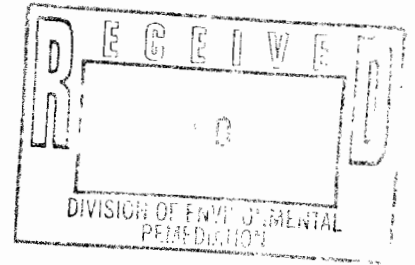
This data report shall not be reproduced, except in full, without the written authorization of STL Buffalo.

000071

CHAIN OF CUSTODY DOCUMENTATION

FILE 9-15-066

Viacom Inc.
11 Stanwix Street
Pittsburgh, PA. 15222-1384



VIACOM

Via Overnight Delivery

January 9, 2001

Michael J. Ryan, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

**Re: Monthly Progress Report, Order on Consent and Settlement Agreement
Index No. B9-0381-91-8, NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Ryan:

On behalf of the Respondents, Viacom Inc. (Viacom) submits this monthly progress report to the New York State Department of Environmental Conservation (NYSDEC) pursuant to Paragraph III of the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, regarding NYSDEC Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This report covers Remedial Program activities during the period of December 1 through December 31, 2000.

1. Actions Taken During Previous Month to Achieve Compliance

- A. On December 4, 2000, Viacom submitted a monthly status report to NYSDEC.
- B. On December 8, 2000, IT Corporation (IT) submitted the *Remedial Action Report* to document the completed remedial activity.
- C. Also on December 8, 2000, IT submitted the final operation and maintenance (O&M) manual.
- D. IT continued groundwater recovery and treatment system operations throughout the December 2000 reporting period. Over this period, the groundwater system recovered and treated approximately 559,000 gallons (Table 1). System effluent was sampled on December 26, 2000.

- E. IT conducted sampling of groundwater monitoring wells on November 30 and December 1, 2000.

2. Results of Sampling and Tests and Other Data

- A. Table 2 summarizes the groundwater treatment system influent and effluent monitoring data collected through the November sampling event. A copy of the laboratory report is being provided under separate cover.
- B. As indicated in Table 2, the discharge pH in the November 28, 2000 sampling exceeded the limited provided by NYSDEC's temporary discharge authorization. Examination of O&M records suggest this elevated pH was likely an isolated incident. The O&M contractor has been instructed to carefully monitor the system pH (as measured in the equalization tank) and be attentive to the acid supply available on-site for treatment.
- C. Results of the latest round of groundwater monitoring will be forwarded once all data are received and compiled.

3. Deliverables

- A. The *Remedial Action Report* and Final O&M Manual were submitted to NYSDEC on December 8, 2000.

4. Actions Projected for Next Month

- A. IT will continue O&M activities on an interim basis. Viacom is currently developing plans for long-term O&M implementation.

5. Progress and Schedule Report

- A. Through the end of the December 2000 reporting period, work activities have been completed with respect to project initiation tasks, pre-design investigations, Remedial Design, and remedial construction..
- B. O&M of installed facilities is currently underway.
- C. No unresolved delays have been encountered.

6. Modifications to Work Plan

- A. No plan modifications were proposed or approved during the December 2000 reporting period.

7. Activities in Support of Citizens Participation Plan

- A. No activities were undertaken in December 2000 in support of the Citizens Participation Program.

* * * *

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:

Attachments

cc: Director, Bureau of Environmental Exposure Investigation
New York State Department of Health
Peter Buechi, P.E.
G. P. Sutton, P.E.
J. P. Ryan, Esquire
H. W. Matuszak, NFTA
M. G. Graham, Esquire

TABLES

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge		
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)
08/21/00	12:00 PM	-	0.000	--	--
08/27/00	7:30 PM	6.3	99.360	10.93	10.93
08/28/00	8:00 AM	6.8	100.260	1.20	10.19
08/31/00	11:59 PM	10.5	120.704 C	3.87	7.98
August Total			120.704	7.98	7.98
09/06/00	2:40 PM	16.1	152.000	3.87	6.55
09/08/00	2:00 PM	18.1	189.000	13.03	7.26
09/11/00	1:30 PM	21.1	216.000	6.29	7.12
09/13/00	4:10 PM	23.2	237.000	6.91	7.10
09/20/00	10:30 AM	29.9	366.293	13.27	8.50
09/21/00	10:15 AM	30.9	386.903	14.46	8.69
09/22/00	11:15 AM	32.0	418.104	20.80	9.08
09/25/00	9:30 AM	34.9	464.912	11.11	9.25
09/27/00	9:00 AM	36.9	491.432	9.31	9.25
09/29/00	3:00 PM	39.1	516.106	7.62	9.16
09/30/00	11:59 PM	40.5	552.576 C	18.43	9.48
September Total			431.871	10.00	9.48
10/02/00	1:00 PM	42.0	593.505	18.43	9.80
10/04/00	11:00 AM	44.0	636.477	15.57	10.05
10/06/00	9:45 AM	45.9	672.770	12.94	10.18
10/09/00	2:00 PM	49.1	720.145	10.36	10.19
10/11/00	12:00 PM	51.0	769.480	17.87	10.48
10/13/00	2:00 PM	53.1	790.295	6.94	10.34
10/16/00	12:00 PM	56.0	818.704	6.76	10.15
10/17/00	8:15 AM	56.8	824.000	4.36	10.05
10/19/00	1:30 PM	59.1	839.650	4.75	9.83
10/23/00	5:07 PM	63.2	866.650	4.52	9.44
10/25/00	9:25 AM	64.9	899.000	13.38	9.55
10/31/00	8:11 AM	70.8	964.000	7.59	9.37
10/31/00	11:59 PM	71.5	969.240 C	5.53	9.41
October Total			416.665	9.33	9.41

Note: "C" indicates calculated value (by interpolation).

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge		
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)
11/01/00	2:20 PM	72.1	974.000	5.53	9.38
11/03/00	8:47 AM	73.9	983.000	3.53	9.15
11/03/00	1:00 PM	74.0	983.369	1.46	9.12
11/06/00	11:00 AM	77.0	993.890	2.50	8.85
11/06/00	11:35 AM	77.0	994.000	3.14	8.85
11/13/00	10:30 AM	83.9	1079.435	8.53	8.82
11/16/00	10:00 AM	86.9	1137.102	13.44	8.99
11/20/00	11:32 AM	91.0	1230.000	14.85	9.32
11/20/00	1:00 PM	91.0	1231.539	17.49	9.33
11/25/00	11:00 AM	96.0	1293.422	8.74	9.30
11/30/00	11:59 PM	101.5	1384.479 C	11.41	9.47
November Total			415.238	9.61	9.47
12/04/00	1:27 PM	105.1	1443.000	11.41	9.54
12/05/00	3:08 PM	106.1	1472.660	19.25	9.60
12/11/00	11:15 AM	112.0	1600.711	15.23	9.91
12/18/00	12:40 PM	119.0	1643.000	4.16	9.55
12/21/00	10:30 AM	121.9	1648.940	1.42	9.34
12/26/00	8:20 AM	126.8	1778.450	18.32	9.71
12/29/00	10:30 AM	129.9	1867.829	20.09	9.97
12/31/00	11:59 PM	132.5	1943.334 C	20.47	10.19
December Total			558.855	12.52	10.19
01/02/01	1:59 PM	134.1	1990.000	20.47	10.31
01/03/01	3:41 PM	135.2	2021.000	20.10	10.39

Note: "C" indicates calculated value (by interpolation).

Table 2
Summary of Influent and Effluent Sampling Results
Groundwater Treatment Plant

Influent Samples

Parameter	08/21/00	08/29/00	09/06/00	09/13/00	09/20/00	09/27/00	10/04/00	10/10/00
<u>SEMIVOLATILE ORGANICS (ug/L)</u>								
Dibenzofuran	1J	2J	9U	1J	48U	47U	48U	0.9J
1,2-Dichlorobenzene	10U	10U	10U	10U	10U	10U	10U	10U
2-Methylnaphthalene	1J	2J	9U	1J	48U	47U	48U	0.9J
Bis(2-ethylhexyl) phthalate	0.7J	10U	9U	0.9J	48U	47U	48U	9U
Diethyl phthalate	10U	10U	0.7J	10U	48U	47U	48U	9U
Di-n-butyl phthalate	10U	1J	9U	1J	48U	47U	48U	9U
Carbazole	11	21	20	10	11J	7J	10J	7J
Acenaphthene	10U	3J	5J	2J	48U	47U	48U	1J
Anthracene	10U	10U	2J	10U	48U	47U	48U	0.9J
Fluoranthene	1J	1J	2J	0.8J	48U	47U	48U	0.7J
Fluorene	2J	3J	4J	2J	48U	47U	48U	1J
Naphthalene	13	18	21	7J	11J	9J	11J	6J
Phenanthrene	2J	4J	7J	3J	4J	2J	4J	2J
Pyrene	0.8J	0.9J	2J	0.6J	48U	47U	48U	0.6J
2,4-Dimethylphenol	13	5J	26	8J	9J	5J	10J	11
2-Methylphenol	7J	8J	12	4J	3J	3J	3J	5J
4-Methylphenol	41	48	63	25	23J	26J	28J	32
2-Nitrophenol	10U	0.8J	9U	10U	48U	47U	48U	9U
Pentachlorophenol	1J	0.6J	2J	4J	120U	120U	120U	23U
Phenol	25	38	43	18	32BJ	17J	22J	24
<u>VOLATILE ORGANICS (ug/L)</u>								
Chloromethane	200U	200U	200U	400U	100U	100U	100U	25U
Carbon Disulfide	200U	200U	200U	400U	100U	100U	100U	25U
Vinyl Chloride	200U	200U	200U	400U	100U	100U	100U	25U
Methylene Chloride	81BJ	270BDJ	400U	130J	85BDJ	52J	53BJ	12BJ
Acetone	1000U	1000U	1000U	2000U	500U	500U	500U	180
cis-1,2-Dichloroethene	200U	200U	200U	400U	54J	100U	60J	23J
Trichloroethene	3,100	8,500D	4,100	9,600	2,500D	2,200	2,500	430
Tetrachloroethane	670	1,700D	760	1800	580	650	550	120
Toluene	200U	200U	200U	400U	100U	100U	100U	25U
Styrene	200U	200U	200U	400U	100U	100U	100U	25U

**Table 2
Summary of Influent and Effluent Sampling Results
Groundwater Treatment Plant**

Influent Samples

Parameter	08/21/00	08/29/00	09/06/00	09/13/00	09/20/00	09/27/00	10/04/00	10/10/00
<u>TOTAL CATIONS + Cd (ug/L)</u>								
Cadmium	1.5	0.70*	0.70U	1.6	0.60U	0.68B	0.69B	0.50U
Calcium	128000E	166,000E	183,000E	119,000E	159,000	105,000E	135,000E	154,000E
Chromium	NA	NA	NA	NA	NA	10	4.3	2.0
Iron	1,180	92.0*	44.0B	207	28.6B	91.9	66.6	388
Manganese	55.2E	9.6	1.0U	6.3	21.3	10.6E	7.7E	16.3
Potassium	65,700	11,500N*	79,800E	58,000E	63,400	55,500E	66,900E	70,400E
Sodium	79,600	101,000E	85,300E	64,400E	67,400	56,400E	72,900E	65,800
<u>WET CHEMISTRY ANALYSIS (mg/L)</u>								
Chloride	337	140	60.5	54.6	47.3	42.6	49.1	42.7
Fluoride	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U
Nitrate	0.71	0.83	0.073	3.4	1.5	0.42	0.19	0.31
Sulfate	150	110	67.5	109	106	102	116	92.3
Total Alkalinity	89.8	420	654	260	334	261	323	392
Total Dissolved Solids	1020	10U	40,800	544	567	528	650	707
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	33.3
Total Recoverable Oil and Grease	8.3	5.0U	8.8	5.0U	19.5	6.5	5.8	5.0U
Total Suspended Solids	34.0	4.0U	17.5	138	7.0	43.5	97	80.0
pH - Standard Units	7.26	12.0	12.5	12.0	11.8	11.7	11.8	12.0

Only constituents detected in one or more samples are listed.

USEPA Organic Data Qualifiers

1. U - Not detected in sample.
2. B - Analyte detected in blank.
3. E - Concentration exceeds calibration range.
4. J - Estimated value.
5. N - Indicates presumptive evidence of a compound.

USEPA Inorganic Data Qualifiers

1. U - Not detected in sample.
2. B - Concentration exceeds detection limit.
3. D- Dilution performed to determine concentration.
4. E - Estimated value.
5. N - Spike sample recovery not within control limits.
6. * - Outside QC Limits
7. NA - Not Analyzed

**Table 2
Summary of Influent and Effluent Sampling Results
Groundwater Treatment Plant**

Effluent Samples

Parameter	08/21/00	08/29/00	09/06/00	09/13/00	09/20/00	09/27/00	10/04/00	10/11/00	11/27/00
<u>TOTAL CATIONS + Cd (ug/L)</u>									
Cadmium	0.70U	0.70U*	0.70U	0.91B	1.0	0.60U	0.50U	0.50U	45.3
Calcium	64,800E	175,000E	180,000E	75,400E	145,000	112,000E	137,000E	139,000E	171,000E
Chromium	NA	NA	NA	NA	NA	1.2U	1.5B	1.5U	1.2U
Iron	22.2B	77.0*	36.3B	95.8	91.5	705	961	442	1,320
Manganese	118E	126	69.4	10.6	4.4	104	41.1E	35.4	116
Potassium	18,000	101,000N*	71,200E	26,900	60,500	51,100E	64,200E	60,400E	46,000E
Sodium	39,000	105,000E	81,800E	41,600	64,000	55,200E	70,900E	62,100	2,000,000
<u>WET CHEMISTRY ANALYSIS (mg/L)</u>									
Chloride	40.5	271	590	122	380	214	347	358	2,670
Fluoride	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U
Nitrate	0.050U	1.9	0.050U	0.22	0.050U	0.050U	0.050U	0.050U	0.050U
Sulfate	106	152	84.6	144	107	105	119	112	192
Total Alkalinity	176	94.9	63.7	92.7	73.3	53.8	47.6	71.8	52.7
Total Dissolved Solids	397	10U	1020	529	985	689	865	946	4,400
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	14.0	NA
Total Recoverable Oil and Grease	5.4	5.0U	5.0U	5.0U	7.1	5.0U	14.6	5.0U	9.2
Total Suspended Solids	4.0U	4.0U	4.0U	4.0U	4.0U	4.5	4.0U	4.0	4.0
pH - Standard Units	9.13	7.92	8.37	9.40	8.56	7.63	6.94	7.02	12.7

Only constituents detected in one or more samples are listed.

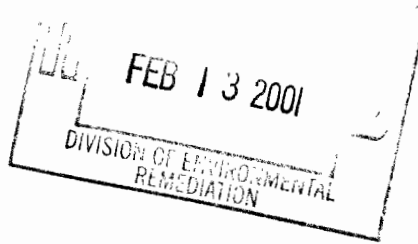
USEPA Organic Data Qualifiers

1. U - Not detected in sample.
2. B - Analyte detected in blank.
3. E - Concentration exceeds calibration range.
4. J - Estimated value.
5. N - Indicates presumptive evidence of a compound.

USEPA Inorganic Data Qualifiers

1. U - Not detected in sample.
2. B - Concentration exceeds detection limit.
3. D - Dilution performed to determine concentration.
4. E - Estimated value.
5. N - Spike sample recovery not within control limits.
6. * - Outside QC Limits
7. NA - Not Analyzed

Viacom Inc.
11 Stanwix Street
Pittsburgh, PA. 15222-1384



VIACOM

Via Overnight Delivery

February 12, 2001

Michael J. Ryan, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

**Re: Monthly Progress Report, Order on Consent and Settlement Agreement
Index No. B9-0381-91-8, NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Ryan:

On behalf of the Respondents, Viacom Inc. (Viacom) submits this monthly progress report to the New York State Department of Environmental Conservation (NYSDEC) pursuant to Paragraph III of the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, regarding NYSDEC Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This report covers Remedial Program activities during the period of January 1 through January 31, 2001.

1. Actions Taken During Previous Month to Achieve Compliance

- A. On January 9, 2001, Viacom submitted a monthly status report to NYSDEC.
- B. Also on January 9, 2001, Viacom transmitted the groundwater treatment plant effluent data for November 2000.
- C. On behalf of the Respondents, IT Corporation (IT) continued groundwater recovery and treatment system operations throughout the January 2001 reporting period. Copies of Site inspection and reporting forms attendant to system operation and maintenance (O&M) are being provided under separate cover.
- D. Over the January 2001 reporting period, the groundwater system recovered and treated approximately 405,700 gallons (Table 1). System effluent was sampled on January 24, 2001.

- E. Viacom received letters dated January 23 and January 29, 2001, transmitting NYSDEC comments on the *Remedial Action Report* and *Final Operation and Maintenance Manual*. IT is preparing responses to these comments and revising the documents to address the issues raised by NYSDEC.
- F. On January 31, 2001, Viacom transmitted the groundwater treatment plant effluent data for November 2000.

2. Results of Sampling and Tests and Other Data

- A. Table 2 summarizes the groundwater treatment system influent and effluent monitoring data collected through the December 2000 sampling event. A copy of the laboratory report for the December 2000 sampling was transmitted to NYSDEC via letter dated January 31, 2001.
- B. As indicated in Table 2, the discharge pH in the December 26, 2000 sampling was below the allowable range provided by NYSDEC's temporary discharge authorization and acetone was detected in the effluent. As discussed with NYSDEC, Viacom is working to improve groundwater treatment system operations and keep NYSDEC apprised of progress.
- C. Results of the latest round of groundwater monitoring are summarized in Table 3. The laboratory data package is being sent under separate cover. Because of the redevelopment activities at the Site, reliable monitoring well elevations were not available. Viacom requested that IT re-survey all of the monitoring well elevations. Once this information is available, Viacom will compile groundwater elevation data and potentiometric surface maps, as appropriate.

3. Deliverables

- A. No project deliverables were submitted during the January 2001 reporting period.

4. Actions Projected for Next Month

- A. IT will continue O&M activities on an interim basis. Viacom is currently developing plans for long-term O&M implementation and will review these plans with NYSDEC.
- B. IT will complete the re-survey of all groundwater monitoring wells and manholes associated with the groundwater collection system.
- C. Viacom plans to submit the revised *Remedial Action Report* and *Final Operation and Maintenance Manual* in response to NYSDEC comments.

Michael J. Ryan, P.E.

February 12, 2001

Page 3

5. Progress and Schedule Report

- A. Through the end of the January 2001 reporting period, work activities have been completed with respect to project initiation tasks, pre-design investigations, Remedial Design, and remedial construction..
- B. O&M of installed facilities is currently underway.
- C. No unresolved delays have been encountered.

6. Modifications to Work Plan

- A. No plan modifications were proposed or approved during the January 2001 reporting period.

7. Activities in Support of Citizens Participation Plan

- A. No activities were undertaken in January 2001 in support of the Citizens Participation Program.

* * * *

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:

Attachments

cc: Director, Bureau of Environmental Exposure Investigation
New York State Department of Health
Peter Buechi, P.E.
G. P. Sutton, P.E.
J. P. Ryan, Esquire
H. W. Matuszak, NFTA
M. G. Graham, Esquire

TABLES

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge		
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)
08/21/00	12:00 PM	-	0.000	--	--
08/27/00	7:30 PM	6.3	99.360	10.93	10.93
08/28/00	8:00 AM	6.8	100.260	1.20	10.19
08/31/00	11:59 PM	10.5	120.704 C	3.87	7.98
August Total			120.704	7.98	7.98
09/06/00	2:40 PM	16.1	152.000	3.87	6.55
09/08/00	2:00 PM	18.1	189.000	13.03	7.26
09/11/00	1:30 PM	21.1	216.000	6.29	7.12
09/13/00	4:10 PM	23.2	237.000	6.91	7.10
09/20/00	10:30 AM	29.9	366.293	13.27	8.50
09/21/00	10:15 AM	30.9	386.903	14.46	8.69
09/22/00	11:15 AM	32.0	418.104	20.80	9.08
09/25/00	9:30 AM	34.9	464.912	11.11	9.25
09/27/00	9:00 AM	36.9	491.432	9.31	9.25
09/29/00	3:00 PM	39.1	516.106	7.62	9.16
09/30/00	11:59 PM	40.5	552.576 C	18.43	9.48
September Total			431.871	10.00	9.48
10/02/00	1:00 PM	42.0	593.505	18.43	9.80
10/04/00	11:00 AM	44.0	636.477	15.57	10.05
10/06/00	9:45 AM	45.9	672.770	12.94	10.18
10/09/00	2:00 PM	49.1	720.145	10.36	10.19
10/11/00	12:00 PM	51.0	769.480	17.87	10.48
10/13/00	2:00 PM	53.1	790.295	6.94	10.34
10/16/00	12:00 PM	56.0	818.704	6.76	10.15
10/17/00	8:15 AM	56.8	824.000	4.36	10.05
10/19/00	1:30 PM	59.1	839.650	4.75	9.83
10/23/00	5:07 PM	63.2	866.650	4.52	9.44
10/25/00	9:25 AM	64.9	899.000	13.38	9.55
10/31/00	8:11 AM	70.8	964.000	7.59	9.37
10/31/00	11:59 PM	71.5	969.240 C	5.53	9.41
October Total			416.665	9.33	9.41

Note: "C" indicates calculated value (by interpolation).

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge		
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)
11/01/00	2:20 PM	72.1	974.000	5.53	9.38
11/03/00	8:47 AM	73.9	983.000	3.53	9.15
11/03/00	1:00 PM	74.0	983.369	1.46	9.12
11/06/00	11:00 AM	77.0	993.890	2.50	8.85
11/06/00	11:35 AM	77.0	994.000	3.14	8.85
11/13/00	10:30 AM	83.9	1079.435	8.53	8.82
11/16/00	10:00 AM	86.9	1137.102	13.44	8.99
11/20/00	11:32 AM	91.0	1230.000	14.85	9.32
11/20/00	1:00 PM	91.0	1231.539	17.49	9.33
11/25/00	11:00 AM	96.0	1293.422	8.74	9.30
11/30/00	11:59 PM	101.5	1384.479 C	11.41	9.47
November Total			415.238	9.61	9.47
12/04/00	1:27 PM	105.1	1443.000	11.41	9.54
12/05/00	3:08 PM	106.1	1472.660	19.25	9.60
12/11/00	11:15 AM	112.0	1600.711	15.23	9.91
12/18/00	12:40 PM	119.0	1643.000	4.16	9.55
12/21/00	10:30 AM	121.9	1648.940	1.42	9.34
12/26/00	8:20 AM	126.8	1778.450	18.32	9.71
12/29/00	10:30 AM	129.9	1867.829	20.09	9.97
12/31/00	11:59 PM	132.5	1943.334 C	20.47	10.19
December Total			558.855	12.52	10.19
01/02/01	1:59 PM	134.1	1990.000	20.47	10.31
01/02/01	3:00 PM	134.1	1991.905	31.23	10.32
01/03/01	3:41 PM	135.2	2021.000	19.65	10.39
01/05/01	3:00 PM	137.1	2074.980	19.01	10.53
01/08/01	9:46 AM	139.9	2089.560	3.64	10.38
01/09/01	9:46 AM	140.9	2094.000	3.08	10.33
01/24/01	9:46 AM	155.9	2223.953	6.02	9.89
01/29/01	12:00 PM	161.0	2338.400	15.60	10.08
01/31/01	11:30 AM	163.0	2339.330	0.33	9.96
01/31/01	11:59 PM	163.5	2349.081 C	13.02	9.97
January Total			405.748	9.09	9.98

Note: "C" indicates calculated value (by interpolation).

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge		
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)
02/09/01	1:59 PM	172.1	2510.000	12.28	10.13
02/12/01	9:00 AM	174.9	2556.000	11.44	10.15

Note: "C" indicates calculated value (by interpolation).

Table 2
Summary of Influent and Effluent Sampling Results
Groundwater Treatment Plant

Influent Samples

Parameter	08/21/00	08/29/00	09/06/00	09/13/00	09/20/00	09/27/00	10/04/00	10/10/00
<u>SEMIVOLATILE ORGANICS (ug/L)</u>								
Dibenzofuran	1J	2J	9U	1J	48U	47U	48U	0.9J
1,2-Dichlorobenzene	10U	10U	10U	10U	10U	10U	10U	10U
2-Methylnaphthalene	1J	2J	9U	1J	48U	47U	48U	0.9J
Bis(2-ethylhexyl) phthalate	0.7J	10U	9U	0.9J	48U	47U	48U	9U
Diethyl phthalate	10U	10U	0.7J	10U	48U	47U	48U	9U
Di-n-butyl phthalate	10U	1J	9U	1J	48U	47U	48U	9U
Carbazole	11	21	20	10	11J	7J	10J	7J
Acenaphthene	10U	3J	5J	2J	48U	47U	48U	1J
Anthracene	10U	10U	2J	10U	48U	47U	48U	0.9J
Fluoranthene	1J	1J	2J	0.8J	48U	47U	48U	0.7J
Fluorene	2J	3J	4J	2J	48U	47U	48U	1J
Naphthalene	13	18	21	7J	11J	9J	11J	6J
Phenanthrene	2J	4J	7J	3J	4J	2J	4J	2J
Pyrene	0.8J	0.9J	2J	0.6J	48U	47U	48U	0.6J
2,4-Dimethylphenol	13	5J	26	8J	9J	5J	10J	11
2-Methylphenol	7J	8J	12	4J	3J	3J	3J	5J
4-Methylphenol	41	48	63	25	23J	26J	28J	32
2-Nitrophenol	10U	0.8J	9U	10U	48U	47U	48U	9U
Pentachlorophenol	1J	0.6J	2J	4J	120U	120U	120U	23U
Phenol	25	38	43	18	32BJ	17J	22J	24
<u>VOLATILE ORGANICS (ug/L)</u>								
Chloromethane	200U	200U	200U	400U	100U	100U	100U	25U
Carbon Disulfide	200U	200U	200U	400U	100U	100U	100U	25U
Vinyl Chloride	200U	200U	200U	400U	100U	100U	100U	25U
Methylene Chloride	81BJ	270BDJ	400U	130J	85BDJ	52J	53BJ	12BJ
Acetone	1000U	1000U	1000U	2000U	500U	500U	500U	180
cis-1,2-Dichloroethene	200U	200U	200U	400U	54J	100U	60J	23J
Trichloroethene	3,100	8,500D	4,100	9,600	2,500D	2,200	2,500	430
Tetrachloroethane	670	1,700D	760	1800	580	650	550	120
Toluene	200U	200U	200U	400U	100U	100U	100U	25U
Styrene	200U	200U	200U	400U	100U	100U	100U	25U

Table 2
Summary of Influent and Effluent Sampling Results
Groundwater Treatment Plant

Influent Samples

Parameter	08/21/00	08/29/00	09/06/00	09/13/00	09/20/00	09/27/00	10/04/00	10/10/00
<u>TOTAL CATIONS + Cd (ug/L)</u>								
Cadmium	1.5	0.70*	0.70U	1.6	0.60U	0.68B	0.69B	0.50U
Calcium	128000E	166,000E	183,000E	119,000E	159,000	105,000E	135,000E	154,000E
Chromium	NA	NA	NA	NA	NA	10	4.3	2.0
Iron	1,180	92.0*	44.0B	207	28.6B	91.9	66.6	388
Manganese	55.2E	9.6	1.0U	6.3	21.3	10.6E	7.7E	16.3
Potassium	65,700	11,500N*	79,800E	58,000E	63,400	55,500E	66,900E	70,400E
Sodium	79,600	101,000E	85,300E	64,400E	67,400	56,400E	72,900E	65,800
<u>WET CHEMISTRY ANALYSIS (mg/L)</u>								
Chloride	337	140	60.5	54.6	47.3	42.6	49.1	42.7
Fluoride	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U
Nitrate	0.71	0.83	0.073	3.4	1.5	0.42	0.19	0.31
Sulfate	150	110	67.5	109	106	102	116	92.3
Total Alkalinity	89.8	420	654	260	334	261	323	392
Total Dissolved Solids	1020	10U	40,800	544	567	528	650	707
Total Organic Carbon	NA	NA	NA	NA	NA	NA	NA	33.3
Total Recoverable Oil and Grease	8.3	5.0U	8.8	5.0U	19.5	6.5	5.8	5.0U
Total Suspended Solids	34.0	4.0U	17.5	138	7.0	43.5	97	80.0
pH - Standard Units	7.26	12.0	12.5	12.0	11.8	11.7	11.8	12.0

Only constituents detected in one or more samples are listed.

USEPA Organic Data Qualifiers

1. U - Not detected in sample.
2. B - Analyte detected in blank.
3. E - Concentration exceeds calibration range.
4. J - Estimated value.
5. N - Indicates presumptive evidence of a compound.

USEPA Inorganic Data Qualifiers

1. U - Not detected in sample.
2. B - Concentration exceeds detection limit.
3. D - Dilution performed to determine concentration.
4. E - Estimated value.
5. N - Spike sample recovery not within control limits.
6. * - Outside QC Limits
7. NA - Not Analyzed

Table 2
Summary of Influent and Effluent Sampling Results
Groundwater Treatment Plant

Effluent Samples

Parameter	08/21/00	08/29/00	09/06/00	09/13/00	09/20/00
<u>SEMIVOLATILE ORGANICS (ug/L)</u>					
Dibenzofuran	10U	9U	9U	10U	9U
1,2-Dichlorobenzene	10U	9U	9U	10U	0.6J
Bis(2-ethylhexyl) phthalate	10U	9U	9U	0.6J	3J
Diethyl phthalate	10U	9U	9U	10U	9U
Di-n-butyl phthalate	10U	9U	9U	10U	9U
Carbazole	10U	9U	9U	10U	9U
2,4-Dinitrotoluene	10U	9U	9U	10U	9U
Acenaphthene	10U	9U	9U	10U	9U
Anthracene	10U	9U	9U	10U	9U
Fluoranthene	10U	9U	9U	10U	9U
Fluorene	10U	9U	9U	10U	9U
Naphthalene	10U	9U	9U	10U	9U
Phenanthrene	10U	9U	9U	10U	9U
Pyrene	10U	9U	9U	10U	9U
2,4-Dimethylphenol	10U	9U	9U	10U	9U
2-Methylphenol	10U	9U	9U	10U	9U
4-Methylphenol	10U	9U	9U	10U	9U
2-Nitrophenol	10U	9U	9U	10U	9U
Phenol	10U	9U	9U	10U	9B
<u>VOLATILE ORGANICS (ug/L)</u>					
Chloromethane	1U	1U	1U	1U	1U
Carbon Disulfide	1U	1U	1U	1U	1U
Vinyl Chloride	1U	1U	1U	1U	1U
Methylene Chloride	2U	2U	2U	2U	2U
Acetone	5U	5U	5U	18	56
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	2
Tetrachloroethene	1U	1U	1U	1U	0.2J
Toluene	1U	1U	0.2J	1U	1U
Styrene	1U	1U	1U	1U	1U
<u>TOTAL CATIONS + Cd (ug/L)</u>					
Cadmium	0.70U	0.70U*	0.70U	0.91B	1.0
Calcium	64,800E	175,000E	180,000E	75,400E	145,000
Chromium	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA
Iron	22.2B	77.0*	36.3B	95.8	91.5
Lead	NA	NA	NA	NA	NA
Manganese	118E	126	69.4	10.6	4.4
Potassium	18,000	101,000N*	71,200E	26,900	60,500
Sodium	39,000	105,000E	81,800E	41,600	64,000

Table 2
Summary of Influent and Effluent Sampling Results
Groundwater Treatment Plant

Effluent Samples

Parameter	08/21/00	08/29/00	09/06/00	09/13/00	09/20/00
<u>WET CHEMISTRY ANALYSIS (mg/L)</u>					
Chloride	40.5	271	590	122	380
Fluoride	0.50U	0.50U	0.50U	0.50U	0.50U
Nitrate	0.050U	1.9	0.050U	0.22	0.050U
Sulfate	106	152	84.6	144	107
Total Alkalinity	176	94.9	63.7	92.7	73.3
Total Dissolved Solids	397	10U	1020	529	985
Total Organic Carbon	NA	NA	NA	NA	NA
Total Recoverable Oil and Grease	5.4	5.0U	5.0U	5.0U	7.1
Total Suspended Solids	4.0U	4.0U	4.0U	4.0U	4.0U
pH - Standard Units	9.13	7.92	8.37	9.40	8.56

Table 2
Summary of Influent and Effluent Sampl
Groundwater Treatment Plant

Effluent Samples

Parameter	09/27/00	10/04/00	10/11/00	11/27/00	12/26/00
<u>SEMIVOLATILE ORGANICS (ug/L)</u>					
Dibenzofuran	9U	10U	10U	9U	10U
1,2-Dichlorobenzene	9U	10U	10U	9U	10U
Bis(2-ethylhexyl) phthalate	9U	10U	10U	9U	10U
Diethyl phthalate	9U	10U	10U	9U	10U
Di-n-butyl phthalate	9U	10U	10U	9U	10U
Carbazole	9U	10U	10U	9U	10U
2,4-Dinitrotoluene	9U	10U	10U	9U	10U
Acenaphthene	9U	10U	10U	9U	10U
Anthracene	9U	10U	10U	9U	10U
Fluoranthene	9U	10U	10U	9U	10U
Fluorene	9U	10U	10U	9U	10U
Naphthalene	9U	10U	10U	9U	10U
Phenanthrene	9U	10U	10U	9U	10U
Pyrene	9U	10U	10U	9U	10U
2,4-Dimethylphenol	9U	10U	10U	9U	10U
2-Methylphenol	9U	10U	10U	9U	10U
4-Methylphenol	9U	10U	10U	9U	10U
2-Nitrophenol	9U	10U	10U	9U	10U
Phenol	9U	10U	10U	9U	10U
<u>VOLATILE ORGANICS (ug/L)</u>					
Chloromethane	0.4J	1U	1U	0.3 J	1U
Carbon Disulfide	0.4J	1U	1U	0.8 J	1U
Vinyl Chloride	1U	0.3J	0.5J	1U	0.2J
Methylene Chloride	0.3BJ	1BJ	2B	2U	2
Acetone	30	53	69	14	210E
cis-1,2-Dichloroethene	1U	0.8J	0.9J	1U	1U
Trichloroethene	2	9	6	1U	1U
Tetrachloroethene	0.2J	1	0.6J	5U	1U
Toluene	1U	0.2J	1U	1U	1U
Styrene	1U	1U	1U	0.2J	1U
<u>TOTAL CATIONS + Cd (ug/L)</u>					
Cadmium	0.60U	0.50U	0.50U	45.3	1.0U
Calcium	112,000E	137,000E	139,000E	171,000E	125,000E
Chromium	1.2U	1.5B	1.5U	1.2U	2.2
Copper	NA	NA	NA	NA	5.0U
Iron	705	961	442	1,320	50U
Lead	NA	NA	NA	NA	10.0U
Manganese	104	41.1E	35.4	116	7.1
Potassium	51,100E	64,200E	60,400E	46,000E	76,800E
Sodium	55,200E	70,900E	62,100	2,000,000	797,000

Table 2
Summary of Influent and Effluent Sampl
Groundwater Treatment Plant

Effluent Samples

Parameter	09/27/00	10/04/00	10/11/00	11/27/00	12/26/00
<u>WET CHEMISTRY ANALYSIS (mg/L)</u>					
Chloride	214	347	358	2,670	1,420
Fluoride	0.50U	0.50U	0.50U	0.50U	0.50U
Nitrate	0.050U	0.050U	0.050U	0.050U	1.3
Sulfate	105	119	112	192	140
Total Alkalinity	53.8	47.6	71.8	52.7	7.3
Total Dissolved Solids	689	865	946	4,400	2,380
Total Organic Carbon	NA	NA	14.0	NA	NA
Total Recoverable Oil and Grease	5.0U	14.6	5.0U	9.2	5.0U
Total Suspended Solids	4.5	4.0U	4.0	4.0	4.0U
pH - Standard Units	7.63	6.94	7.02	12.7	4.60

Only constituents detected in one or more samples are listed.

USEPA Organic Data Qualifiers

1. U - Not detected in sample.
2. B - Analyte detected in blank.
3. E - Concentration exceeds calibration range.
4. J - Estimated value.
5. N - Indicates presumptive evidence of a compound.

USEPA Inorganic Data Qualifiers

1. U - Not detected in sample.
2. B - Concentration exceeds detection limit.
3. D- Dilution performed to determine concentration.
4. E - Estimated value.
5. N - Spike sample recovery not within control limits.
6. * - Outside QC Limits
7. NA - Not Analyzed

Table 3
Results of Groundwater Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Monitoring Well	Date of Sampling	Concentration (ug/L)						
		1,2-dichloroethylene	Toluene	1,1,1-trichloroethane	Trichloroethylene	Vinyl chloride	Cadmium	Lead
MW-02	05/04/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.6J	1.3	3.0J
	11/30/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<10
MW-05	05/11/00	ND<5.0	ND<5.0	ND<5.0	5.0	ND<5.0	ND<1.0	18.0
	11/30/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<10
MW-28	05/04/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.5	3.1J
	--	NS	NS	NS	NS	NS	NS	NS
MW-30	05/04/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3.0	11.8
	11/30/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<10
MW-31	05/09/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<0.7	ND<3.0
	11/30/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<10
MW-32	05/11/00	1,500D	ND<5.0	ND<5.0	3,700D	540D	ND<1.0	ND<3.0
	12/01/00	2,200/2,300	ND<5.0	ND<5.0	1,200B/1,900	110/230J	ND<1.0	ND<10
MW-33	05/11/00	ND<5.0	ND<5.0	ND<5.0	1.3J	ND<5.0	1.3	ND<3.0
	12/01/00	22	ND<5.0	ND<5.0	35	ND<5.0	ND<1.0	ND<10
MW-34	05/06/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.2	3.8J
	11/30/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.1	ND<10
MW-34D	05/06/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.2	3.1J
	11/30/00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<10

- Notes:*
1. Well samples analyzed for constituents as defined in the NYSDEC Record of Decision, December 1995.
 2. All constituent detection's are shown in **boldface** type. Values exceeding applicable Remedial Action Objectives are underscored.
 3. "ND" indicates constituent not detected above indicated reporting limit.
 4. "NS" indicates well not sampled; field technicians could not remove well cap during November/December 2000 sampling event.
 5. "J" indicates estimated value above instrument detection but below reporting limit..
 6. "D" indicates analysis result is based on a diluted sample.
 7. "B" indicates constituent detected in blank sample.

Viacom Inc.
11 Stanwix Street
Pittsburgh, PA. 15222-1384

VIACOM

Via Overnight Delivery

March 9, 2001

Michael J. Ryan, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010



**Re: Monthly Progress Report, Order on Consent and Settlement Agreement
Index No. B9-0381-91-8, NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Ryan:

On behalf of the Respondents, Viacom Inc. (Viacom) submits this monthly progress report to the New York State Department of Environmental Conservation (NYSDEC) pursuant to Paragraph III of the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, regarding NYSDEC Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This report covers activities during the period of February 1 through February 28, 2001.

1. Actions Taken During Previous Month to Achieve Compliance

- A. Viacom received a letter from NYSDEC dated February 5, 2001 raising concerns about the groundwater recovery and treatment system performance. Viacom's proposed plan to address these issues is presented in Attachment A.
- B. On February 12, 2001, Viacom submitted a monthly status report to NYSDEC.
- C. Also on February 12, 2001, Viacom transmitted the groundwater monitoring data for the sampling conducted in November and December 2000 and the operation and maintenance (O&M) record for the groundwater recovery and treatment system (through January 31, 2001).
- D. IT Corporation (IT) continued groundwater recovery and treatment system operations throughout the February 2001 reporting period. Copies of Site inspection and reporting forms attendant to system O&M are being provided under separate cover.

- E. Over the February 2001 reporting period, the groundwater system recovered and treated approximately 520,700 gallons (Table 1). System effluent was sampled on February 15, 2001.
- F. IT revised and updated the *Remedial Action Report* and *Final Operation and Maintenance Manual* in response to comments received from NYSDEC.
- G. Viacom received via NYSDEC's letter dated February 27, 2001 the discharge limitations for the groundwater treatment plant effluent. Future sampling (i.e., beginning with March 2001) will be specifically tailored to address these effluent limitations.

2. Results of Sampling and Tests and Other Data

- A. Table 2 summarizes the groundwater treatment system effluent monitoring data collected for January 2001. A copy of the laboratory report for the January 2001 sampling is being transmitted to NYSDEC under separate cover.
- B. As indicated in Table 2, the discharge pH in the January 24, 2001 sampling was again below the allowable range provided by NYSDEC's temporary discharge authorization. Viacom's plans to address this and other issues regarding the performance of the groundwater recovery and treatment system are described in Attachment A.
- C. IT has not completed its re-survey of the groundwater monitoring wells. Once this information is available, Viacom will compile groundwater elevation data and potentiometric surface maps, as requested by NYSDEC.

3. Deliverables

- A. No project deliverables were submitted during the February 2001 reporting period.

4. Actions Projected for Next Month

- A. Viacom plans to implement the actions described in Attachment A relative to both the short-term and long-term O&M of the groundwater recovery and treatment system.
- B. IT will complete the re-survey of all groundwater monitoring wells and manholes associated with the groundwater collection system.
- C. Viacom plans to submit the revised *Remedial Action Report* and *Final Operation and Maintenance Manual* in response to NYSDEC comments.

Michael J. Ryan, P.E.

March 9, 2001

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5. Progress and Schedule Report

- A. Through the end of the February 2001 reporting period, work activities have been completed with respect to project initiation tasks, pre-design investigations, Remedial Design, and remedial construction.
- B. O&M of installed facilities are currently underway.
- C. No unresolved delays have been encountered.

6. Modifications to Work Plan

- A. No plan modifications were proposed or approved during the February 2001 reporting period.
- B. The activities described in Attachment A supplement the previously completed start-up activities and the ongoing routine O&M of the groundwater recovery and treatment system. Viacom suggests that the troubleshooting tasks described in Attachment A first be conducted. If modifications to the *O&M Manual* are then deemed necessary, such changes will be made at that time.

7. Activities in Support of Citizens Participation Plan

- A. No activities were undertaken in February 2001 in support of the Citizens Participation Program.

* * * *

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:

Attachments

Michael J. Ryan, P.E.

March 9, 2001

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cc: Director, Bureau of Environmental Exposure Investigation
New York State Department of Health
Peter Buechi, P.E.
G. P. Sutton, P.E.
J. P. Ryan, Esquire
H. W. Matuszak, NFTA
M. G. Graham, Esquire

TABLES

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge			Estimated Maximum Daily Flow (gpd)
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)	
08/21/00	12:00 PM	-	0.000	--	--	13,113
08/27/00	12:00 AM	5.5	86.571 C			
08/27/00	7:30 PM	6.3	99.360	10.93	10.93	
08/27/00	11:59 PM	6.5	99.684 C			
08/28/00	8:00 AM	6.8	100.260	1.20	10.19	
08/31/00	11:59 PM	10.5	120.704 C	3.87	7.98	
August Total			120.704	7.98	7.98	
09/06/00	2:40 PM	16.1	152.000	3.87	6.55	22,535
09/08/00	2:00 PM	18.1	189.000	13.03	7.26	
09/11/00	1:30 PM	21.1	216.000	6.29	7.12	
09/13/00	4:10 PM	23.2	237.000	6.91	7.10	
09/20/00	10:30 AM	29.9	366.293	13.27	8.50	
09/21/00	10:15 AM	30.9	386.903	14.46	8.69	
09/22/00	12:00 AM	31.5	404.064 C			
09/22/00	11:15 AM	32.0	418.104	20.80	9.08	
09/22/00	11:59 PM	32.5	426.599 C			
09/25/00	9:30 AM	34.9	464.912	11.11	9.25	
09/27/00	9:00 AM	36.9	491.432	9.31	9.25	
09/29/00	3:00 PM	39.1	516.106	7.62	9.16	
09/30/00	11:59 PM	40.5	552.576 C	18.43	9.48	
September Total			431.871	10.00	9.48	22,535

Note: "C" indicates calculated value (by interpolation).

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge			Estimated Maximum Daily Flow (gpd)
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)	
10/02/00	12:00 AM	41.5	566.949 C			36,831
10/02/00	1:00 PM	42.0	593.505	18.43	9.80	
10/02/00	11:59 PM	42.5	603.781 C			
10/04/00	11:00 AM	44.0	636.477	15.57	10.05	
10/06/00	9:45 AM	45.9	672.770	12.94	10.18	
10/09/00	2:00 PM	49.1	720.145	10.36	10.19	
10/11/00	12:00 PM	51.0	769.480	17.87	10.48	
10/13/00	2:00 PM	53.1	790.295	6.94	10.34	
10/16/00	12:00 PM	56.0	818.704	6.76	10.15	
10/17/00	8:15 AM	56.8	824.000	4.36	10.05	
10/19/00	1:30 PM	59.1	839.650	4.75	9.83	
10/23/00	5:07 PM	63.2	866.650	4.52	9.44	
10/25/00	9:25 AM	64.9	899.000	13.38	9.55	
10/31/00	8:11 AM	70.8	964.000	7.59	9.37	
10/31/00	11:59 PM	71.5	969.240 C	5.53	9.41	
October Total			416.665	9.33	9.41	
11/01/00	2:20 PM	72.1	974.000	5.53	9.38	18,293
11/03/00	8:47 AM	73.9	983.000	3.53	9.15	
11/03/00	1:00 PM	74.0	983.369	1.46	9.12	
11/06/00	11:00 AM	77.0	993.890	2.50	8.85	
11/06/00	11:35 AM	77.0	994.000	3.14	8.85	
11/13/00	10:30 AM	83.9	1079.435	8.53	8.82	
11/16/00	10:00 AM	86.9	1137.102	13.44	8.99	
11/20/00	12:00 AM	90.5	1219.015 C			
11/20/00	11:32 AM	91.0	1230.000	14.85	9.32	
11/20/00	1:00 PM	91.0	1231.539	17.49	9.33	
11/20/00	11:59 PM	91.5	1237.308 C			
11/25/00	11:00 AM	96.0	1293.422	8.74	9.30	
11/30/00	11:59 PM	101.5	1384.479 C	11.41	9.47	
November Total			415.238	9.61	9.47	

Note: "C" indicates calculated value (by interpolation).

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge			Estimated Maximum Daily Flow (gpd)	
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)		
12/04/00	1:27 PM	105.1	1443.000	11.41	9.54	29,232	
12/05/00	3:08 PM	106.1	1472.660	19.25	9.60		
12/11/00	11:15 AM	112.0	1600.711	15.23	9.91		
12/18/00	12:40 PM	119.0	1643.000	4.16	9.55		
12/21/00	10:30 AM	121.9	1648.940	1.42	9.34		
12/26/00	8:20 AM	126.8	1778.450	18.32	9.71		
12/29/00	12:00 AM	129.5	1855.176 C				
12/29/00	10:30 AM	129.9	1867.829	20.09	9.97		
12/29/00	11:59 PM	130.5	1884.407 C				
12/31/00	11:59 PM	132.5	1943.334 C	20.47	10.19		
December Total			558.855	12.52	10.19		29,232
01/02/01	12:00 AM	133.5	1960.506 C	10.20	10.20	42,007	
01/02/01	1:59 PM	134.1	1990.000	20.47	10.31		
01/02/01	3:00 PM	134.1	1991.905	31.23	10.32		
01/02/01	11:59 PM	134.5	2002.513 C	19.65	10.35		
01/03/01	3:41 PM	135.2	2021.000	19.65	10.39		
01/05/01	3:00 PM	137.1	2074.980	19.01	10.53		
01/08/01	9:46 AM	139.9	2089.560	3.64	10.38		
01/09/01	9:46 AM	140.9	2094.000	3.08	10.33		
01/24/01	9:46 AM	155.9	2223.953	6.02	9.89		
01/29/01	12:00 PM	161.0	2338.400	15.60	10.08		
01/31/01	11:30 AM	163.0	2339.330	0.33	9.96		
01/31/01	11:59 PM	163.5	2349.081 C	13.02	9.97		
January Total			405.748	9.09	9.98		42,007

Note: "C" indicates calculated value (by interpolation).

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge			Estimated Maximum Daily Flow (gpd)	
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)		
02/09/01	1:59 PM	172.1	2510.000	12.28	10.13	18,408	
02/12/01	9:00 AM	174.9	2556.000	11.44	10.15		
02/13/01	3:06 PM	176.1	2569.880	7.69	10.13		
02/14/01	1:30 PM	177.1	2586.000	11.99	10.14		
02/15/01	12:00 AM	177.5	2594.114 C				
02/15/01	1:00 PM	178.0	2604.160	12.88	10.16		
02/15/01	11:59 PM	178.5	2612.522 C				
02/16/01	12:28 PM	179.0	2622.000	12.67	10.17		
02/20/01	11:55 AM	183.0	2689.000	11.70	10.20		
02/22/01	1:38 PM	185.1	2705.000	5.36	10.15		
02/28/01	2:46 AM	190.6	2744.610	4.96	9.99		
02/28/01	11:59 PM	191.5	2755.704 C	8.71	9.99		
February Total			520.657	11.66	10.00		18,408
03/05/01	9:44 AM	195.9	2811.000	7.77	9.96		
03/09/01	8:02 AM	199.8	2848.000	6.54	9.89		

Note: "C" indicates calculated value (by interpolation).

Table 2
Discharge Monitoring Data
Groundwater Recovery and Treatment System
NYSDEC Site No. 9-15-006
Cheektowaga, New York

Reporting Month & Year **January-01**

Maximum Daily Flow **42,007** **gpd**
Average Daily Flow **13,089** **gpd**

Effluent Monitoring Summary Date of Sampling **January 24, 2001**

Constituent	Effluent Limitation	Monitoring Results		Calculated Maximum Discharge (lbs/day)
		Units	Value	
pH	6.0 to 9.0 (range)	s.u.	4.3	--
Total suspended solids	85.5 lbs/day	mg/L	11.00	3.85
Cadmium	0.023 lbs/day	ug/L	1.0 U	< 0.00035
Trichloroethylene	0.18 lbs/day	ug/L	1 U	< 0.00035
SVOCs				
Dibenzofuran	N/E	ug/L	10 U	< 0.0035
1,2-Dichlorobenzene	N/E	ug/L	10 U	< 0.0035
Bis(2-ethylhexyl) phthalate	N/E	ug/L	10 U	< 0.0035
Diethyl phthalate	N/E	ug/L	10 U	< 0.0035
Di-n-butyl phthalate	N/E	ug/L	10 U	< 0.0035
Carbazole	N/E	ug/L	10 U	< 0.0035
2,4-Dinitrotoluene	N/E	ug/L	10 U	< 0.0035
Acenaphthene	N/E	ug/L	10 U	< 0.0035
Anthracene	N/E	ug/L	10 U	< 0.0035
Fluoranthene	N/E	ug/L	10 U	< 0.0035
Fluorene	N/E	ug/L	10 U	< 0.0035
Naphthalene	N/E	ug/L	10 U	< 0.0035
Phenanthrene	N/E	ug/L	10 U	< 0.0035
Pyrene	N/E	ug/L	10 U	< 0.0035
2,4-Dimethylphenol	N/E	ug/L	10 U	< 0.0035
2-Methylphenol	N/E	ug/L	10 U	< 0.0035
4-Methylphenol	N/E	ug/L	10 U	< 0.0035
2-Nitrophenol	N/E	ug/L	10 U	< 0.0035
Phenol	N/E	ug/L	10 U	< 0.0035
VOCs				
Chloromethane	N/E	ug/L	6	0.0021
Carbon Disulfide	N/E	ug/L	0.2 J	0.000070
Vinyl Chloride	N/E	ug/L	5	0.0018
Methylene Chloride	N/E	ug/L	4	0.0014
Acetone	N/E	ug/L	290 D	0.10
cis-1,2-Dichloroethene	N/E	ug/L	1 U	< 0.00035
2-Butanone	N/E	ug/L	62	0.022
Tetrachloroethene	N/E	ug/L	1U	< 0.00035
Toluene	N/E	ug/L	1U	< 0.00035
Styrene	N/E	ug/L	1U	< 0.00035

Table 2
Discharge Monitoring Data
Groundwater Recovery and Treatment System
NYSDEC Site No. 9-15-006
Cheektowaga, New York

Reporting Month & Year **January-01**

Maximum Daily Flow **42,007** gpd
 Average Daily Flow **13,089** gpd

Effluent Monitoring Summary Date of Sampling **January 24, 2001**

Constituent	Effluent Limitation	Monitoring Results		Calculated Maximum Discharge (lbs/day)
		Units	Value	
<u>Metals</u>				
Calcium	N/E	mg/L	300 E	105
Chromium	N/E	mg/L	0.0065	0.0023
Copper	N/E	mg/L	0.005 U	< 0.0018
Iron	N/E	mg/L	0.072	0.0252
Lead	N/E	mg/L	0.010 U	< 0.0053
Manganese	N/E	mg/L	0.0155	0.0054
Potassium	N/E	mg/L	142 E	49.7
Sodium	N/E	mg/L	4,760	1,668
<u>General Chemistry</u>				
Chloride	N/E	mg/L	6,130	2,148
Fluoride	N/E	mg/L	0.92	0.32
Nitrate	N/E	mg/L	2.8	0.98
Sulfate	N/E	mg/L	190	66.6
Total Alkalinity	N/E	mg/L	22	7.71
Total Dissolved Solids	N/E	mg/L	288	101
Oil and Grease	N/E	mg/L	5.0 U	< 1.75

Only constituents detected in one or more samples are listed.

USEPA Organic Data Qualifiers

1. U - Not detected in sample.
2. B - Analyte detected in blank.
3. E - Concentration exceeds calibration range.
4. J - Estimated value.
5. N - Indicates presumptive evidence of a compound.

USEPA Inorganic Data Qualifiers

1. U - Not detected in sample.
2. B - Concentration exceeds detection limit.
3. D- Dilution performed to determine concentration.
4. E - Estimated value.
5. N - Spike sample recovery not within control limits.
6. * - Outside QC Limits

ATTACHMENT A
NEAR-TERM CORRECTIVE ACTIONS
OPERATION AND MAINTENANCE
GROUNDWATER RECOVERY AND TREATMENT SYSTEM

ATTACHMENT A

**NEAR-TERM CORRECTIVE ACTIONS
OPERATION AND MAINTENANCE
GROUNDWATER RECOVERY AND TREATMENT SYSTEM
NYSDEC SITE 9-15-066
CHEEKTOWAGA, NEW YORK**

Since bringing it on-line in August 2000, the groundwater recovery and treatment system at New York State Department of Environmental Conservation (NYSDEC) Site No. 9-15-066 in Cheektowaga, New York (the "Site") has not performed up to design expectations. This attachment provides a brief discussion of the reasons for this substandard performance and proposes a series of corrective measures to bring this system into full conformity with needed performance levels.

Background

The less-than-satisfactory performance of the groundwater recovery and treatment system appears to result from two basic factors:

- Site conditions that were not anticipated in the design; and
- Insufficient training and experience of the operations personnel.

The groundwater recovery and treatment system was designed, based on the information available at that time, to collect and treat an average of 5 to 10 gallons per minute (gpm) of groundwater. Design influent quality, as described in Appendix G of the *Remedial Action Plan*, is summarized in the following table. This table includes a comparison of the design basis to the system effluent limitations, as established by NYSDEC's correspondence dated February 27, 2001.

Parameter	Units	Design Basis	Effluent Limitation
Average flow	gpm	5 - 10	--
Maximum daily flow	gpd	28,800	28,800
pH	s.u.	7.25 - 8.00	7.25 - 8.00
Total suspended solids	mg/L	10	20
Total dissolved solids	mg/L	500	500
Cadmium	g/L	15	3
Iron	g/L	1,000	300
Manganese	g/L	215	2,000
1,2-dichloroethylene	g/L	20	10
Methylene chloride	g/L	3	10
Trichloroethylene	g/L	200	10
Tetrachloroethylene	g/L	12	50

In pre-remedial sampling, semi-volatile organic compounds were either not detected or found only in trace concentrations.

Unfortunately, the actual quantity and character of water being collected by this system vary significantly from what was anticipated. Changed conditions that have negatively affected the performance of the groundwater system include the following:

- Introduction of high pH water to the system, apparently as a consequence of floor slab removal, apparently exposing caustic-contaminated subsoil to infiltration and the leaching of alkaline components of the concrete and plaster generated from Site demolition and included in Site fill;
- Much higher than anticipated inflow rates, resulting from improperly sealed roof leaders and downspouts and, possibly, increased rainwater infiltration due to building slab removal; and
- Variations in influent quality with respect to volatile organic compounds (VOCs), including higher-than-expected trichloroethylene (TCE) concentrations and the appearance of other organic compounds in the influent.

The following sections describe the plan to respond to these conditions.

Proposed Corrective Measures

Viacom Inc. (Viacom) proposes to reorganize the project team for operation and maintenance (O&M) of the groundwater recovery and treatment system. Conestoga-Rovers & Associates (CRA) of Niagara Falls, New York, will serve as the O&M Contractor responsible for the following:

- Troubleshooting the existing system to resolve ongoing operational problems;
- Conducting routine O&M of the system, including required effluent sampling;
- Performing semi-annual groundwater and system influent monitoring.

Encotech, Inc. of Eighty-Four, Pennsylvania (Encotech) will continue to provide carbon services and assist in the troubleshooting and repair of system components. Encotech was a subcontractor to IT Corporation for the design and installation of the process equipment.

Both CRA and Encotech will contract directly with Viacom. CRA will subcontract the analytical laboratory for both routine effluent monitoring and quarterly groundwater and system influent monitoring.

Initial System Upgrades

In accordance with our discussions, Encotech has taken (or is taking) the following actions to improve system performance:

- Connect pH meter to Autodialer to allow remote monitoring of pH within the equalization tank and provide remote alarm of high (> 9.5) or low (< 5.5) pH conditions; and
- Change out activated carbon in all three adsorbers.

This work should be completed by the middle of March 2001.

System Restart and Troubleshooting

Once the initial system upgrades are completed, attention will focus on restoring full pumping capability to all three sumps. The sequence of operation for this activity is as follows:

- Leaving the power off to CSMH-002 and CSMH-003, pump down CSMH-001 and maintain water level below high-level alarm;
- Turn power off CSMH-001;
- Install temporary pump in CSMH-002 and pump down water level with discharge to equalization tank at the treatment plant;
- Once water level is sufficiently depressed, remove, inspect, and repair or replace (as needed), sump pump in CSMH-002;
- Install flexible connection to pump in CSMH-02 to allow, in the future, pulling of pump without dewatering;
- Install temporary pump in CSMH-003 and pump down water level with discharge to CSMH-002;
- Once water level is sufficiently depressed, remove, inspect, and repair or replace (as needed), sump pump in CSMH-003;
- Install flexible connection to pump in CSMH-03 to allow, in the future, pulling of pump without dewatering;
- Leave pump in CSMH-002 running and restart pumps in CSMH-01 and CSMH-02.

Once the system is restarted, CRA will conduct an intense, one-month shakedown period to evaluate system performance and identify causes of the problems experienced to date. CRA will then evaluate potential measure to improve the operations of the treatment system, particularly as related to acid addition system and solids buildup in the system. Such modifications could include improved ventilation of the acid addition tank to reduce acid fumes and the corrosive atmosphere within the treatment building and placement of a mixer inside the equalization tank to improve acid mixing and reduce ineffective acid consumption. Viacom will apprise NYSDEC of the results of this engineering evaluation and our proposed system modifications.

Influent Evaluation

Once all three sumps are on-line and the pumping and treatment systems are operating satisfactorily, Viacom and CRA will conduct an initial investigation aimed at determining the locations and quality of inflows to the groundwater recovery and treatment system. This work will include the following tasks:

- Inspect manhole and estimate flow in each to isolate the source of inflows;
- Sample and analyze water in each of the three collection sumps and selected upstream manholes (approximately nine total) to identify the sources of high pH, suspended solids, and VOCs in the influent; and
- Perform bench-scale neutralization testing (i.e., titration curves) to better estimate acid addition quantities and allow evaluation of alternative acids.

If pipe runs between manholes are identified with apparent high inflows, we will develop an investigation plan to examine these pipes (e.g., video survey) to determine the source(s) of such inflows. If influent VOCs fall well outside the range of the design influent or beyond the capability of the existing treatment system, we will identify this situation to NYSDEC and work with you to identify other measures that may be suitable to address these VOCs.

Routine O&M

With the system restarted, CRA will provide routine O&M services. A diligent effort will be made to consistently operate the system at its maximum design throughput (i.e., 20 gpm) while avoiding upset or alarm conditions. We are hopeful that, with close attention and skilled operation, the system will prove sufficient in collecting the quantity of infiltration generated by the system and effectively treating this effluent to meet discharge limitations.

Viacom Inc.
11 Stanwix Street
Pittsburgh, PA. 15222-1384



Via Overnight Delivery

April 9, 2001

Michael J. Ryan, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

2001

**Re: Monthly Progress Report, Order on Consent and Settlement Agreement
Index No. B9-0381-91-8, NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Ryan:

On behalf of the Respondents, Viacom Inc. (Viacom) submits this monthly progress report to the New York State Department of Environmental Conservation (NYSDEC) pursuant to Paragraph III of the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, regarding NYSDEC Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This report covers activities during the period of March 1 through March 31, 2001.

1. Actions Taken During Previous Month to Achieve Compliance

- A. On March 9, 2001, Viacom submitted a monthly status report to NYSDEC.
- B. Also on March 9, 2001, Viacom transmitted the groundwater monitoring data for the sampling conducted in January 2001.
- C. On March 20, 2001, IT Corporation (IT) submitted the final *Remedial Action Report* and *Final Operation and Maintenance Manual* in response to comments received from NYSDEC.
- D. On March 22, 2001, Viacom transmitted the groundwater monitoring data for the sampling conducted in February 2001.
- E. IT operated the groundwater recovery and treatment system operations through March 18, 2001. Effective March 19, 2001, Conestoga-Rovers & Associates (CRA) replaced IT as Viacom's operation and maintenance (O&M) contractor.

- F. CRA performed initial troubleshooting of the groundwater recovery and treatment system to resolve operational problems.
- G. Under contract to Viacom, Encotech took the following actions to improve system performance:
 - Connected the pH meter to the Autodialer to allow remote monitoring of pH within the equalization tank and provide remote alarm of high (> 9.5) or low (< 5.5) pH conditions; and
 - Changed out activated carbon in all three adsorbers.
- H. Copies of Site inspection and reporting forms attendant to system O&M are for the period of February 1 through March 18, 2001 are being provided under separate cover.
- I. Over the March 2001 reporting period, the groundwater system recovered and treated approximately 437,398 gallons (Table 1). System effluent was sampled on March 29, 2001.
- J. During the week of March 26, 2001, CRA conducted system influent and groundwater monitoring at the Site in accordance with the *Final Operation and Maintenance Manual*.

2. Results of Sampling and Tests and Other Data

- A. The results of discharge monitoring will be reported under separate cover once the data are received from the laboratory.
- B. The results of system influent and groundwater monitoring will be reported under separate cover once the data are received from the laboratory. At the same time, Viacom will provide updated potentiometric surface maps.

3. Deliverables

- A. During the March 2001 reporting period, IT submitted the final *Remedial Action Report* and *Final Operation and Maintenance Manual*.

4. Actions Projected for Next Month

- A. Under contract to Viacom, CRA will continue O&M of the groundwater recovery and treatment system.
- B. CRA will prepare a report presenting the results of groundwater monitoring, including updated potentiometric surface maps.

- C. Viacom proposes to install a supplemental, temporary groundwater treatment system to allow for dewatering of the collection sumps and a subsequent investigation of the sources of infiltration and inflow to the groundwater collection system.
- D. In conjunction with the work described in Item 4.C., CRA will continue efforts to troubleshoot and optimize the groundwater recovery and treatment system.

5. Progress and Schedule Report

- A. Through the end of the March 2001 reporting period, work activities have been completed with respect to project initiation tasks, pre-design investigations, Remedial Design, and remedial construction.
- B. O&M of installed facilities are currently underway.
- C. It has become apparent that the existing groundwater treatment system cannot handle the quantity of water collected in the subsurface sewer lines. Even though the treatment plant has been running at or near capacity for the past three weeks, the system has made little headway in dewatering Sump 001, let alone Sumps 002 and 003. There is considerable rainwater inflow to the groundwater recovery system, apparently through roof leaders and downspouts that were not properly sealed as part of Site demolition activities conducted by the Niagara Frontier Transportation Authority (NFTA). Viacom has developed a proposed plan to provide additional on-site treatment capacity that will allow the subsurface sewer lines to be dewatered. Once dewatered, Viacom proposes to conduct a video survey to locate inflows and, if such inflow points are shown to be downspouts and roof leaders, request NFTA to make needed repairs.
- D. No other unresolved delays or technical problems have been encountered.

6. Modifications to Work Plan

- A. No plan modifications were proposed or approved during the March 2001 reporting period.
- B. As part of the ongoing troubleshooting and optimization of the groundwater recovery and treatment system, Viacom may propose changes to O&M procedures. Such changes may result in needed modifications to the *O&M Manual* in the future.

7. Activities in Support of Citizens Participation Plan

- A. No activities were undertaken in March 2001 in support of the Citizens Participation Program.

Michael J. Ryan, P.E.

April 9, 2001

Page 4

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We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:

Attachments

cc: Director, Bureau of Environmental Exposure Investigation
New York State Department of Health
Peter Buechi, P.E.
G. P. Sutton, P.E.
J. P. Ryan, Esquire
H. W. Matuszak, NFTA
M. G. Graham, Esquire
W. C. Lachell, CRA

TABLE

Table 1
Groundwater Water Treatment Plant Discharge Monitoring
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge			Estimated Maximum Daily Flow (gpd)
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)	
02/09/01	1:59 PM	172.1	2510.000	13.02	10.13	18,408
02/12/01	9:00 AM	174.9	2556.000	11.44	10.15	
02/13/01	3:06 PM	176.1	2569.880	7.69	10.13	
02/14/01	1:30 PM	177.1	2586.000	11.99	10.14	
02/15/01	12:00 AM	177.5	2594.114 C			
02/15/01	1:00 PM	178.0	2604.160	12.88	10.16	
02/15/01	11:59 PM	178.5	2612.522 C			
02/16/01	12:28 PM	179.0	2622.000	12.67	10.17	
02/20/01	11:55 AM	183.0	2689.000	11.70	10.20	
02/22/01	1:38 PM	185.1	2705.000	5.36	10.15	
02/28/01	2:46 AM	190.6	2744.610	4.96	9.99	
02/28/01	11:59 PM	191.5	2755.704 C	8.71	9.99	
February Total			520.657	11.66	10.00	
03/05/01	9:44 AM	195.9	2811.000	8.71	9.96	18,140
03/09/01	8:02 AM	199.8	2848.000	6.54	9.89	
03/14/01	9:17 AM	204.9	2881.000	4.54	9.75	
03/22/01	9:48 AM	212.9	3019.000	11.95	9.84	
03/31/01	12:00 AM	221.5	3174.963 C			
03/31/01	11:59 PM	222.5	3193.103 C	12.61	9.96	
March Total			437.398	9.80	9.85	18,140
04/02/01	4:50 PM	224.2	3224.000	12.61	9.98	
04/05/01	8:30 AM	226.9	3273.000	12.72	10.01	
04/09/01	9:48 AM	230.9	3346.000	12.63	10.06	

Note: "C" indicates calculated value (by interpolation).

Viacom Inc.
11 Stanwix Street
Pittsburgh, PA. 15222-1384



Via Overnight Delivery

May 9, 2001

Michael J. Ryan, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
50 Wolf Road
Albany, NY 12233-7010

**Re: Monthly Progress Report, Order on Consent and Settlement Agreement
Index No. B9-0381-91-8, NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Ryan:

On behalf of the Respondents, Viacom Inc. (Viacom) submits this monthly progress report to the New York State Department of Environmental Conservation (NYSDEC) pursuant to Paragraph III of the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8, regarding NYSDEC Site No. 9-15-066 in Cheektowaga, New York (the "Site"). This report covers activities during the period of April 1 through April 30, 2001.

1. Actions Taken During Previous Month to Achieve Compliance

- A. On April 9, 2001, Viacom submitted a monthly status report to NYSDEC.
- B. On April 23, 2001, Viacom transmitted the groundwater recovery and treatment system effluent monitoring data for the sampling conducted in March 2001.
- C. The groundwater recovery and treatment system operated throughout the April 2001 reporting period. Conestoga-Rovers & Associates (CRA) conducted the operation and maintenance (O&M) work on behalf of Viacom and continued troubleshooting the system to resolve operational problems.
- D. Copies of Site inspection and reporting forms attendant to system O&M for the period of March 19 through March 30, 2001 are being provided under separate cover.

- E. Over the April 2001 reporting period, the groundwater system recovered and treated approximately 446,600 gallons (Table 1). System effluent was sampled on April 27, 2001.

2. Results of Sampling and Tests and Other Data

- A. The results of discharge monitoring are being routinely reported as the data are received from the laboratory.
- B. The results of system influent and groundwater monitoring are being reported under separate cover.

3. Deliverables

- A. Viacom submitted no project deliverables during the April 2001 reporting period.

4. Actions Projected for Next Month

- A. Under contract to Viacom, CRA will continue O&M of the groundwater recovery and treatment system.
- B. Viacom proposes to install a supplemental, temporary groundwater treatment system to allow for dewatering of the collection sumps and a subsequent investigation of the sources of infiltration and inflow to the groundwater collection system.
- C. In conjunction with the work described in Item 4.C., CRA will continue efforts to troubleshoot and optimize the groundwater recovery and treatment system.

5. Progress and Schedule Report

- A. Through the end of the April 2001 reporting period, work activities have been completed with respect to project initiation tasks, pre-design investigations, Remedial Design, and remedial construction. O&M of installed facilities are currently underway.
- B. Sump 001 has now been dewatered, and the groundwater system is able to maintain water levels at this sump below the high-water alarm level. CRA is now working to dewater Sumps 002 and 003.
- C. Despite the recent progress, Viacom believes the existing groundwater treatment system may not be able to consistently and reliably handle the quantity of water

collected in the subsurface sewer lines. Once the subsurface sewer lines are dewatered, Viacom plans to conduct a video survey to locate inflows and coordinate with the Niagara Frontier Transportation Authority to make needed repairs.

D. No other unresolved delays or technical problems have been encountered.

6. Modifications to Work Plan

A. No plan modifications were proposed or approved during the April 2001 reporting period.

B. As part of the ongoing optimization of the groundwater recovery and treatment system, Viacom may propose changes to O&M procedures. Such changes may result in modifications to the *O&M Manual* in the future.

7. Activities in Support of Citizens Participation Plan

A. No activities were undertaken in April 2001 in support of the Citizens Participation Program.

* * * *

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact us.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:

cc: Director, Bureau of Environmental Exposure Investigation
New York State Department of Health
Peter Buechi, P.E.
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Table 1
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NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date	Time	Day	Treatment System Discharge			Estimated Maximum Daily Flow (gpd)
			Total Flow (gal x 1000)	Interval Flow Rate (gpm)	Cumulative Flow Rate (gpm)	
04/02/01	4:50 PM	224.2	3224.000	12.43	9.98	18,170
04/05/01	12:00 AM	226.5	3266.458 C			
04/05/01	8:30 AM	226.9	3273.000	12.83	10.01	
04/05/01	11:59 PM	227.5	3284.629 C			
04/09/01	9:48 AM	230.9	3346.000	12.50	10.06	
04/16/01	10:14 AM	237.9	3470.000	12.27	10.13	
04/18/01	10:02 AM	239.9	3501.000	10.81	10.13	
04/23/01	8:20 AM	244.8	3574.000	10.28	10.14	
04/30/01	11:59 PM	252.5	3640.095 C	6.00	10.01	
April Total			446.551	10.34	10.01	
05/09/01	1:20 PM	261.1	3714.000	6.00	9.87	

Note: "C" indicates calculated value (by interpolation).