

HEXCEL CORPORATION

MTCA ENFORCEMENT ORDER No. DE 2552

ATTACHMENTS:

- ✓ 1 AGREED ORDER No. DE 2552
- 2 Hexcel EO Exhibit A.pdf
- ✓ 3 Hexcel EO Exhibit B.pdf
- ✓ 4. Hexcel EO Exhibit C.pdf
5. Hexcel EO Exhibit D\_IAP\_.pdf
6. Hexcel EO Exhibit D (IAP\_Tables) pdf *-Table 3*
7. Hexcel EO Exhibit D (IAP\_Figures).pdf
8. Hexcel EO Exhibit D (IAP\_Appendix) pdf



**STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY**

In the Matter of Remedial Action at:

Hexcel Corporation  
Kent Facility, Plant 1  
19819 84th Avenue South  
Kent, Washington 98032

ENFORCEMENT ORDER

No. DE 2552

TO: Hexcel Corporation

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## I. INTRODUCTION

The objective of the State of Washington Department of Ecology (Ecology) under this Enforcement Order (Order) is to provide for Remedial Action at a facility where there has been a release or threatened release of Hazardous Substances. This Order requires Hexcel Corporation (Hexcel) to undertake the following Remedial Actions:

1. Complete and submit a Focused Remedial Investigation Report to collect and evaluate sufficient information to allow selection of a cleanup action for the Hexcel Parcels, as described in Section VI of this Order and set forth in Exhibit B to this Order.

2. Complete and submit a Focused Feasibility Study (FS) evaluating remedial alternatives for the Hexcel Parcels, as described in Section VI of this Order and set forth in Exhibit B to this Order.

3. Pending a final remedial decision from Ecology, maintain current remedial actions by implementing the Hexcel Interim Action Plan at the Hexcel Parcels as described in Section VI of this Order and set forth in Exhibit D to this Order.

4. Perform the Groundwater Extraction System Separation Activities listed in Exhibit C in accordance with the procedures in Exhibit D and the schedule contained in Exhibit C.

After completion and approval of the FS, Ecology intends to prepare one or more draft Cleanup Action Plans (CAPs) for the Facility according to the requirements of Washington Administrative Code (WAC) 173-340-380. The parties contemplate that upon further agreement, Ecology and Hexcel may then initiate procedures to negotiate a consent decree pursuant to Revised Code of Washington (RCW) 70.105D.040(4) that would provide for the implementation of the CAP to satisfy the requirements of WAC 173-340-400.

Ecology believes the actions required by this Order are in the public interest.

## II. JURISDICTION

This Order is issued pursuant to the authority of the Model Toxics Control Act (MTCA), Chapter 70.105D RCW, as amended, and its implementing regulations, Chapter 173-340 WAC.

### III. DEFINITIONS

Unless otherwise specified herein, the definitions set forth in Chapter 70.105D RCW and Chapter 173-340 WAC shall control the meanings of the terms used in this Order.

1. BSB: Refers to B. S. B. Diversified Company, Inc., a Delaware corporation.
2. BSB Agreed Order: Refers to Agreed Order No. DE 2551 between Ecology and BSB and issued by Ecology contemporaneously with this Order.
3. BSB/Hexcel Agreed Order: Refers to Agreed Order No. DE 2553 between Ecology, BSB and Hexcel and issued contemporaneously with this Order.
4. Carr: Refers to Carr Prop II, LLC, a Washington Limited Liability Company.
5. Ecology: Refers to the State of Washington, Department of Ecology and the Director, employees and designated agents and representatives thereof.
6. Enforcement Order or Order: Refers to this Order and each of the exhibits to this Order. All exhibits are integral and enforceable parts of this Order. The terms "Enforcement Order" or "Order" shall include all exhibits to this Order.
7. EPA: Refers to the United States Environmental Protection Agency and the Administrator, employees and designated agents and representatives thereof.
8. Facility: Refers to Parcels A, B, C, D, E, F and G where Hazardous Substances have been deposited, stored, disposed of, placed, or otherwise come to be located and to wherever Hazardous Substances from releases on Parcels A, B, C, D, E, F and G have come to be located.
9. FS: Refers to the Focused Feasibility Study Hexcel is to prepare pursuant to this Order.
10. Hazardous Substance: Refers to "hazardous substance" as defined in RCW 70.105D.020(7) and, for purposes of this Order only, includes "dangerous waste constituents" listed in WAC 173-303-9905, the ground-water monitoring list in 40 C.F.R. Part 264 Appendix IX and any constituent which caused a waste to be listed or designated as dangerous under the provisions of Chapter 173-303 WAC.
11. Hexcel: Refers to Hexcel Corporation, a Delaware Corporation.

12. Hexcel Interim Action Plan: Refers to that document created to establish the interim action responsibilities of Hexcel in operating a groundwater remedial well system at the Hexcel Parcels (including off-property monitoring) pending a final remedial decision by Ecology, and described in Exhibit D to this Order.

13. Hexcel Parcels: Refers to the parcels A, B, C, D, and E currently owned and controlled by Hexcel Corporation, located at 19819 84th Avenue South in Kent, Washington. These parcels are more particularly described in Exhibit A to this Order, which is a detailed parcel diagram.

14. Hytek: Refers to Hytek Finishes Company.

15. MICA: Refers to the Washington State Model Toxics Control Act, Chapter 70.105D RCW.

16. Order: See "Enforcement Order" above.

17. Parcel F: Refers to the parcel F property currently owned and controlled by Carr, located at 8311 South 200th Street in Kent, Washington. This parcel is more particularly described in Exhibit A to this Order, which is a detailed parcel diagram.

18. Parcel G: Refers to the parcel G property currently owned and controlled by BSB, located at 8202 S. 200th Street, Kent, Washington. This parcel is more particularly described in Exhibit A to this Order, which is a detailed parcel diagram.

19. Parties: Refers to Ecology and Hexcel.

20. Permit: Refers to the Post Closure Permit WAD 07-665-5182 effective December 22, 1988, that Ecology and EPA jointly issued to Hytek under authority of the Washington Hazardous Waste Management Act, Chapter 70.105 RCW, and RCRA.

21. RCRA: Refers to the Resource Conservation and Recovery Act, 42 U.S.C. § 6901 *et seq.*

22. RCW: Refers to the Revised Code of Washington.

23. Remedial Action: Refers to "remedial action" as defined in RCW 70.105D.020(21).

24. WAC: Refers to the Washington Administrative Code.

#### IV. FINDINGS OF FACT

Ecology makes the following findings of fact.

1. The Hexcel Parcels, comprising Parcels A, B, C, D, and E, are currently owned by Hexcel.
2. Parcel F is currently owned by Carr.
3. Parcel G is currently owned by BSB.
4. Parcels A-E are contiguous parcels bounded on the south by South 200th Street, on the east by 84th Avenue South (East Valley Road), on the north by South 196th Street and on the west by 81st Avenue South. Parcels F and G are located immediately south of, and across South 200th Street from, Parcels A-E, with Parcel G being bounded on the east by Parcel F. The parcel locations are indicated on Exhibit A.
5. Before 1988, BSB owned Parcels A through G and the two divisions, Hytek and Heath Tecna Aerospace Company, that were located on those parcels.
6. On January 25, 1988, BSB sold Heath Tecna Aerospace Company and Parcels A through F to the Phoenix Washington Corporation, a wholly owned subsidiary of Ciba-Geigy Corporation. BSB transferred Parcels A through D and Parcel F to Phoenix Washington Corporation upon closing. The Phoenix Washington Corporation was subsequently renamed the Heath Tecna Aerospace Company (Heath Tecna). In 1989, BSB moved its Hytek operation from Parcel E to another location in Kent, Washington. Later, in July 1989, BSB transferred Parcel E to Heath Tecna.
7. Heath Tecna merged into the Ciba-Geigy Corporation. By mid 1996, Hexcel had acquired Parcels A through F from the Ciba-Geigy Corporation and acquired all assets and assumed all liabilities of the Ciba-Geigy Corporation relating to Parcels A through F.
8. In 2003, Hexcel sold Parcel F to Carr.
9. Of the original seven parcels owned by BSB, one parcel, Parcel G, is still owned by BSB, five parcels, Parcels A-E, are currently owned by Hexcel, and one parcel, Parcel F, is currently owned by Carr.

10. Before 1988, Parcels A-G housed BSB's Hytek division and BSB's Heath Tecna Aerospace Company division. BSB's Hytek division provided metal finishing and electroplating services. BSB's Heath Tecna Aerospace Company division manufactured interior aircraft components. Parcels B, C, D and E housed manufacturing buildings where Hazardous Substances were used. Although not proven, historic waste disposal may have occurred on these parcels, potentially including pre-sanitary sewer connection waste disposal and waste disposal in areas outside of the current manufacturing building footprint. See Permit Attachments II-A (identifying six solid waste management units (SWMUs) on Parcels D and F). Pipes running under South 200th Street connected the manufacturing building located on Parcel E, and carried Hazardous Substances, to Parcel G. Hexcel continues to pursue aircraft parts manufacturing in the manufacturing buildings on Parcels B, C, D and E.

11. Parcel G housed impoundments, lagoons, container storage, and similar units for managing waste, including hazardous waste, through storage and disposal. The wastes contained in some of these units included chlorinated compounds. BSB closed the storage and disposal units before 1988. Concentrations of chlorinated compounds remain in the subsurface soils and groundwater under the Facility.

12. Groundwater flow in the area generally runs in a north-northeasterly direction from Parcel G (upgradient), under Parcels A-F (downgradient), and across 84th Avenue South (downgradient). Groundwater beneath Parcels A-G is contaminated with chlorinated compounds, including (in various locations) ICE, Vinyl Chloride, and cis-1, 2-DCE. Contaminants have been detected in groundwater east of 84th Avenue South.

13. Parcels A through G were operated as a dangerous waste management facility on or after November 19, 1980 (the date facilities became subject to permitting requirements under RCRA, including authorized state regulations promulgated in Chapter 173-303 WAC).

14. Effective December 22, 1988, Ecology and EPA jointly issued Post Closure Permit WAD 07-665-5182 (Permit) to Hytek (later BSB) under authority of the Washington Hazardous Waste Management Act, Chapter 70.105 RCW, and RCRA. The Permit identified the permitted facility as Parcels G and E, with recognition that Parcel E was subject to a pending transfer to



Heath Tecna (later Hexcel). *See* Permit Attachment IV-B at 21. The Permit did not name Heath Tecna and did not define the permitted facility to include Parcels A, B, C, D and F based upon the agencies' acceptance of a private agreement between BSB and Heath Tecna (later Hexcel). *See* Ecology/EPA Response to Comments (November 8, 1988) at 4-5. Under this private agreement, BSB agreed to be named as the sole permittee and Heath Tecna (later Hexcel) agreed to reimburse BSB for certain costs of conducting remedial action on the Hexcel Parcels and to allow BSB access to Parcels A, B, C, D, F (and upon transfer, Parcel E) for conducting remedial action.

15. The Permit assigned groundwater corrective action and monitoring requirements to Parcels A-G, designated a point of compliance at the downgradient property boundary of Parcel G, and required the achievement of concentration limits in groundwater along 84th Avenue South. Permit Attachment VI-B, p. 21.

16. In setting forth the above-described conditions, the Permit did not identify or distinguish between the possible sources of groundwater contamination on Parcel G and the possible sources on the Hexcel Parcels that were or may have been responsible for releases, whether historic or current. *See* Ecology/EPA Response to Comments (November 8, 1988) at 6-7.

17. Pursuant to the Permit and the private agreement, BSB installed a groundwater pump-and-treat system designed to (1) capture contaminated groundwater to prevent it from migrating across South 200th Street from Parcel G, (2) capture contaminated groundwater to prevent it from migrating across 84th Avenue from the Hexcel Parcels, and (3) monitor groundwater conditions at various points. Recovery wells included in this system are located on Parcel G and on the Hexcel Parcels. Monitoring wells included in this system are located on Parcel G, the Hexcel Parcels, and Parcel F. On-site treatment under this system terminated in 1995. The system currently pumps groundwater for discharge to and treatment at a King County publicly owned treatment works.

18. The Permit was issued for an initial ten-year term commencing December 22, 1988. On March 3, 1999, Ecology and EPA issued a letter, still in effect, in which the agencies

declared, pursuant to Part I.E.3.b of the Permit: "The B.S.B. Diversified Post Closure Permit issued jointly by the Department of Ecology (Ecology) and the U.S. Environmental Protection Agency (EPA) shall continue in force beyond the expiration date until which time the Post Closure Permit is re-issued."

19. Hexcel and BSB take differing positions regarding whether the private agreement reached in 1988 continues in force. Since November 1999, Ecology and EPA have encouraged Hexcel and BSB to reach private accord on conducting further remedial action and maintaining the system that spans Hexcel's and BSB's properties. To date, Hexcel's and BSB's efforts to reach such an accord have been unsuccessful.

20. Contemporaneously with this Order, Ecology and BSB have agreed to the BSB Agreed Order, which requires BSB to perform Remedial Actions related to Parcel G.

21. Contemporaneously with the BSB Agreed Order, Ecology is issuing a Washington Hazardous Waste Management Act permit to BSB that incorporates the BSB Agreed Order.

22. Contemporaneously with this Order, Ecology, BSB and Hexcel have agreed to the BSB/Hexcel Agreed Order, which requires BSB and Hexcel to perform Remedial Actions related to investigating contamination found east of 84th Avenue South.

## V. ECOLOGY DETERMINATIONS

Ecology makes the following Determinations:

1. Hexcel is an "owner or operator," as defined in RCW 70.105D.020(12), of a "facility," as defined in RCW 70.105D.020(4).

2. For the purposes of this Order and the BSB Agreed Order, the Facility is being administratively addressed by Ecology along lines of property ownership in order to provide for more expeditious Remedial Action. By addressing the Facility along property ownership lines, Ecology is providing BSB and Hexcel with a delineation of the Remedial Action elements and areas for which they will be directly responsible under this Order and the BSB Agreed Order. This administrative approach does not limit any joint and several liability that Hexcel may otherwise have for Parcel G should BSB fail to comply with the BSB Agreed Order, or for any other portions of the Facility.

3. Based on the presence of Hazardous Substances at the Facility and all factors known to Ecology, there is a "release" or "threatened release" of Hazardous Substances at the Facility as defined in RCW 70.105D.020(20).

4. Based upon credible evidence, Ecology issued a "potentially liable person" (PLP) status letter to Hexcel dated May 10, 2004, pursuant to RCW 70.105D.020(16), RCW 70.105D.040, and WAC 173-340-500. Hexcel objected to PLP status by reply letter of June 4, 2004. On June 20, 2005, Ecology issued a letter to Hexcel determining that under RCW 70.105D.040 Hexcel is a PLP for the Facility.

5. Pursuant to RCW 70.105D.030(1) and 70.105D.050, Ecology may require PLPs to investigate or conduct other remedial actions with respect to any release or threatened release of Hazardous Substances, whenever it believes such action to be in the public interest.

6. Based on the foregoing facts, Ecology believes the Remedial Actions required by this Order are in the public interest.

#### **VI. WORK TO BE PERFORMED**

Based on the Findings of Fact and Ecology Determinations it is hereby ordered that Hexcel take the following Remedial Actions at the Facility and that these actions be conducted in accordance with Chapter 173-340 WAC unless otherwise specifically provided for herein.

1. Hexcel shall complete and submit a Focused Remedial Investigation Report to collect and evaluate sufficient information to allow selection of a cleanup action for the Hexcel Parcels, as set forth and in accordance with the requirements in Exhibit B to this Order and in accordance with the schedule set forth in Exhibit C to this Order.

2. Hexcel shall complete and submit a focused FS evaluating remedial alternatives for the Hexcel Parcels, as set forth and in accordance with the requirements in Exhibit B to this Order and in accordance with the schedule set forth in Exhibit C to this Order.

3. Pending a final remedial decision from Ecology, Hexcel shall maintain current remedial actions by implementing the Hexcel Interim Action Plan at the Hexcel Parcels, as set forth and in accordance with the requirements in Exhibit D to this Order and in accordance with the schedule set forth in Exhibit C to this Order.

4 Hexcel shall perform the Groundwater Extraction System Separation Activities listed in Exhibit C in accordance with the procedures in Exhibit D and the schedule contained in Exhibit C.

## VII. TERMS AND CONDITIONS OF ORDER

### A. Public Notice

Ecology shall provide public notice required pursuant to Chapter 70.105D RCW and WAC 173-340-600 concurrently for this Order, the BSB Agreed Order, and the BSB/Hexcel Agreed Order.

### B. Implementation of Remedial Action

Except where necessary to abate an emergency situation, Hexcel shall not perform any remedial actions at the Facility outside those Remedial Actions required by this Order or the BSB/Hexcel Agreed Order unless Ecology concurs, in writing, with such additional remedial actions.

### C. Designated Project Coordinators

The project coordinator for Ecology is:

Name:	Hideo Fujita, P.E.
Address:	Department of Ecology Northwest Regional Office 3190 – 160th Avenue SE Bellevue, Washington 98008–5452
Telephone:	(425) 649–7068
FAX:	(425) 649–7098
E-mail:	hfuj461@ecy.wa.gov

Hexcel shall designate a project coordinator and provide notice of its designation to Ecology within ten (10) days of the effective date of this Order.

The project coordinator(s) shall be responsible for overseeing the implementation of this Order. The Ecology project coordinator will be Ecology's designated representative for the Facility. To the maximum extent possible, communications between Ecology and Hexcel, and all documents, including reports, approvals, and other correspondence concerning the activities performed pursuant to the terms and conditions of this Order shall be directed through the project

coordinator(s). Ecology and Hexcel may change their respective project coordinator, but must provide ten (10) days advance written notification of the change to the other party.

**D. Performance**

All work performed pursuant to this Order shall be under the direction and supervision, as necessary, of a licensed professional engineer or licensed hydrogeologist, or equivalent as approved by Ecology, with appropriate training, experience and expertise in hazardous waste site investigation and cleanup. Hexcel shall notify Ecology in writing of the identity of such engineer(s), hydrogeologist(s), or others, and of any contractors and subcontractors to be used in carrying out the terms of this Order, in advance of their involvement at the Facility. Hexcel shall provide a copy of this Order to all agents, contractors, and subcontractors retained to perform work required by this Order and shall require that all work undertaken by such agents, contractors, and subcontractors complies with this Order.

Any construction work performed pursuant to this Order shall be under the supervision of a professional engineer or a qualified technician under the direct supervision of a professional engineer. The professional engineer must be registered in the State of Washington, except as provided in RCW 18.43.130.

**E. Access**

Ecology or any Ecology authorized representative shall have the full authority to enter and freely move about all property at the Hexcel Parcels at all reasonable times for the purposes of, *inter alia*: inspecting records, operation logs, and contracts related to the work being performed pursuant to this Order; reviewing Hexcel's progress in carrying out the terms of this Order; conducting such tests or collecting such samples as Ecology may deem necessary; using a camera, sound recording, or other documentary type equipment to record work done pursuant to this Order; and verifying the data submitted to Ecology by Hexcel. Ecology or any Ecology authorized representative shall give reasonable notice to Hexcel before entering the Hexcel Parcels unless an emergency prevents such notice.

BSB's authorized representatives shall have access to real property at the Hexcel Parcels as reasonably necessary to perform work required of BSB under the BSB Agreed Order.

Hexcel shall secure access to Parcel F for the purpose of performing work required under this Order and the BSB Agreed Order, if any.

All persons who access the Hexcel Parcels pursuant to this Section shall comply with the approved health and safety plan, if any.

**F. Sampling, Data Reporting, and Availability**

With respect to the implementation of this Order, Hexcel shall make the results of all sampling, laboratory reports, and/or test results generated by it or on its behalf available to Ecology and shall submit these results in accordance with Section VI of this Order.

All sampling data shall be submitted to Ecology according to the requirements of WAC 173-340-840(5). Ground water sampling data shall also be submitted to Ecology according to the requirements of Exhibit D. These submittals shall be provided to Ecology in accordance with Section VI of this Order.

Hexcel shall provide BSB with a copy of each report and submittal that Hexcel must submit to Ecology pursuant to Section VI of this Order.

If requested by Ecology, Hexcel shall allow split or duplicate samples to be taken by Ecology and/or its authorized representative of any samples collected by Hexcel pursuant to the implementation of this Order. Hexcel shall notify Ecology seven (7) days in advance of any sample collection or work activity at the Hexcel Parcels. Ecology shall, upon request, allow split or duplicate samples of any samples collected by Ecology pursuant to the implementation of this Order to be taken by Hexcel or its authorized representative provided it does not interfere with Ecology's sampling. Without limitation on Ecology's rights under Section VII.E. of this Order, Ecology shall notify Hexcel forty-eight (48) hours prior to any sample collection activity unless an emergency prevents such notice.

In accordance with WAC 173-340-830(2)(a), all hazardous substance analyses shall be conducted by a laboratory accredited under Chapter 173-50 WAC for the specific analyses to be conducted, unless otherwise approved by Ecology.

**G. Public Participation**

A public participation plan is required for this Facility. Ecology shall review any existing public participation plan to determine its continued appropriateness and whether it requires amendment. If no plan exists, Ecology shall develop a public participation plan alone or in conjunction with BSB and/or Hexcel.

Ecology shall maintain the responsibility for public participation at the Facility. However, regarding work Hexcel is to perform pursuant to this Order, Hexcel may choose to assist Ecology by:

1. If agreed to by Ecology, developing appropriate mailing lists and preparing drafts of public notices and fact sheets at important stages of the Remedial Action, such as the submission of work plans, remedial investigation/feasibility study reports, cleanup action plans, and engineering design reports. As appropriate, Ecology will edit, finalize, and distribute such fact sheets and prepare and distribute public notices of Ecology's presentations and meetings;

2. Notifying Ecology's project coordinator before any of the following: issuance of all press releases and fact sheets; performance of other outreach activities; and meetings with the interested public and/or local governments. Likewise, Ecology shall notify Hexcel before the issuance of all press releases and fact sheets, performance of other outreach activities, and meetings with the interested public and/or local governments. For all press releases, fact sheets, meetings, and other outreach efforts by Hexcel that do not receive prior Ecology approval, Hexcel shall clearly indicate to its audience that the press release, fact sheet, meeting, or other outreach effort was not sponsored or endorsed by Ecology;

3. When requested by Ecology, participating in public presentations on the progress of the Remedial Action at the Facility. Participation may be through attendance at public meetings to assist in answering questions or as a presenter;

4. When requested by Ecology, arranging for and/or continuing information repositories to be located at the following locations:

- (a) Kent Regional Library  
212 2nd Avenue N.  
Kent, Washington 98032
- (b) Department of Ecology  
Northwest Regional Office  
3190 160th Ave SE  
Bellevue Washington 98008-5452

At a minimum, copies of all public notices, fact sheets, and press releases; all quality assured monitoring data; remedial action plans and reports, supplemental remedial planning documents, and all other similar documents relating to performance of the Remedial Action required by this Order shall be promptly placed in these repositories.

#### **H. Retention of Records**

During the pendency of this Order and for ten (10) years from the date of completion of work performed pursuant to this Order, Hexcel shall preserve all records, reports, documents, and underlying data in its possession relevant to the implementation of this Order and shall insert an equivalent record retention requirement into all contracts with project contractors and subcontractors. Upon request of Ecology, Hexcel shall make all records available to Ecology and allow access for review within a reasonable time.

#### **I. Resolution of Disputes**

Hexcel may, but is not required to, request that Ecology resolve disputes which may arise during the implementation of this Order. Such request shall be in writing and directed to the Ecology signatory, or his/her successor(s), to this Order. Hexcel is not relieved of any requirement of this Order during the pendency of the dispute and remains responsible for timely compliance with the terms of the Order unless otherwise provided by Ecology in writing. Nothing in this Order is intended to waive any rights of respondents to exercise all rights of appeal available to them under MICA, Chapter 70.105D RCW.

#### **J. Endangerment**

In the event Ecology determines that any activity being performed at the Facility pursuant to this Order is creating or has the potential to create a danger to human health or the



environment on or surrounding the Facility, Ecology may order Hexcel to stop further implementation of this Order for such period of time as needed to abate the danger.

If, for any reason, Hexcel determines that any activity being performed at the Facility pursuant to this Order is creating or has the potential to create a danger to human health or the environment, Hexcel may cease such activities. Hexcel shall notify Ecology's project coordinator as soon as possible, but no later than twenty-four (24) hours after making such determination or ceasing such activities. Upon Ecology's direction Hexcel shall provide Ecology with documentation of the basis for the determination or cessation of such activities. If Ecology disagrees with Hexcel's cessation of activities, it may direct Hexcel to resume such activities.

If Ecology concurs with or orders a work stoppage pursuant to this Section, Hexcel's obligations with respect to the ceased activities shall be suspended until Ecology determines the danger is abated, and the time for performance of such activities, as well as the time for any other work dependent upon such activities, shall be extended for such period of time as Ecology determines is reasonable under the circumstances. In such event, no formal amendment of this Order shall be required and Hexcel shall not be subject to any enforcement action for stopping or delaying implementation of this Order. Nothing in this Order shall limit the authority of Ecology, its employees, agents, or contractors to take or require appropriate action in the event of an emergency.

**K. Transfer of Interest in Property**

No voluntary or involuntary conveyance or relinquishment of title, easement, leasehold, or other interest in any portion of the Facility in which Hexcel has a property interest shall be consummated by Hexcel without provision for continued implementation of all requirements of this Order.

Prior to transfer of any legal or equitable interest Hexcel may have in the Facility or in any portions thereof, Hexcel shall serve a copy of this Order upon any prospective purchaser, lessee, transferee, assignee, or other successor in such interest. At least thirty (30) days prior to finalization of any transfer, Hexcel shall notify Ecology of the contemplated transfer. Upon

transfer of any interest, Hexcel shall restrict uses and activities to those consistent with this Order and notify all transferees of the restrictions on the use of the property

**L. Compliance with Applicable Laws**

1. All actions carried out by Hexcel pursuant to this Order shall be done in accordance with all applicable federal, state, and local requirements, including requirements to obtain necessary permits, except as provided in Paragraph 2 of this Section.

2. Pursuant to RCW 70.105D.090(1), Hexcel is exempt from the procedural requirements of Chapters 70.94, 70.95, 77.55, and 90.58 RCW and from the procedural requirements of any laws requiring or authorizing local government permits or approvals for the Remedial Action under this Order.

Hexcel has a continuing obligation to determine whether additional permits or approvals addressed in RCW 70.105D.090(1) would otherwise be required for the Remedial Action under this Order. In the event either Ecology or Hexcel determines that additional permits or approvals addressed in RCW 70.105D.090(1) would otherwise be required for the Remedial Action under this Order, it shall promptly notify the other party of its determination. Ecology shall determine whether Ecology or Hexcel shall be responsible to contact the appropriate state and/or local agencies. If Ecology so requires, Hexcel shall promptly consult with the appropriate state and/or local agencies and provide Ecology with written documentation from those agencies of the substantive requirements those agencies believe are applicable to the Remedial Action under this Order. Ecology shall make the final determination on the additional substantive requirements that must be met by Hexcel and on how Hexcel must meet those requirements. Ecology shall inform Hexcel in writing of these requirements. Once established by Ecology, the additional requirements shall be enforceable requirements of this Order. Hexcel shall not begin or continue Remedial Action under this Order that is potentially subject to the additional requirements until Ecology makes its final determination.

Ecology shall ensure that notice and opportunity for comment is provided to the public and appropriate agencies prior to establishing the substantive requirements under this Section.

3. Pursuant to RCW 70.105D.090(2), in the event Ecology determines that the exemption from complying with the procedural requirements of the laws referenced in RCW 70.105D.090(1) would result in the loss of approval from a federal agency which is necessary for the state to administer any federal law, the exemption shall not apply and Hexcel shall comply with both the procedural and substantive requirements of the specific law at issue. Such a determination by Ecology shall not affect the applicability of the exemption to any of the other statutes referenced in RCW 70.105D.090(1).

**M. Financial Assurance**

1. Hexcel shall establish and maintain financial assurance for corrective action in the amount necessary to implement the Remedial Actions required by this Order.

(a) In the absence of final regulations governing financial assurance for corrective action, the Financial Assurance for Corrective Action Proposed Rule, 51 FR 37853 (October 24, 1986), the financial assurance provisions of Corrective Action for Releases from Solid Waste Management Units Advance Notice of Proposed Rulemaking, 61 FR 19432 (May 1, 1996), and the Interim Guidance on Financial Assurance for Facilities Subject to RCRA Corrective Action (U.S. EPA, September 30, 2003), or other guidance that may be available at the time, shall be used as guidance. The financial assurance provisions of the Corrective Action for Solid Waste Management Units at Hazardous Waste Management Facilities, 55 FR 30798 (July 27, 1990), may be used as secondary guidance at the discretion of Ecology. Unless otherwise specified herein, where the language of this Order conflicts with these proposed rules, notices, and guidance documents, the language of this Order shall prevail.

(b) Acceptable financial assurance mechanisms are trust funds, surety bonds guaranteeing performance, letters of credit, insurance, the financial test, corporate guarantee, or other instruments if Hexcel demonstrates to the satisfaction of Ecology that those instruments provide an acceptable level of financial assurance.

(c) Hexcel shall provide Ecology's project manager and Ecology's financial assurance officer with documentation of this financial assurance within one hundred twenty (120) days of the effective date of this Order. Unless otherwise provided in any final regulations

governing corrective action financial assurance or in the proposed rules, notices and guidance documents identified in Subparagraph 1.(a) above, the date that final original financial assurance documentation is received by Ecology's financial assurance officer is the "financial assurance anniversary date" of this Order.

2. Hexcel shall adjust the financial assurance coverage and provide Ecology's project manager and Ecology's financial assurance officer with documentation of the updated financial assurance for:

(a) Inflation, annually, within thirty (30) days of the financial assurance anniversary date, as defined in Subparagraph 1.(c) above; and

(b) Changes in cost estimates which shall be submitted to Ecology within thirty (30) days of Ecology's issuance of a modification or revision to the Hexcel Interim Action Plan which results in changes to the cost or expected duration of the Remedial Action under this Order. Within one hundred twenty (120) days of Ecology's approval of the change in cost estimate, Hexcel shall adjust the financial assurance coverage and provide Ecology's project manager and Ecology's financial assurance officer with documentation of the updated financial assurance.

3. Hexcel shall notify Ecology's project manager and Ecology's financial assurance officer by certified mail of the commencement of a voluntary or involuntary bankruptcy proceeding under Title 11, United States Code, naming Hexcel as debtor, within ten (10) days after commencement of the proceeding. A guarantor of a corporate guarantee must make such a notification if he is named as debtor as required under the terms of the corporate guarantee.

4. Once Hexcel has established financial assurance for corrective action with an acceptable mechanism, mentioned above, Hexcel will be deemed to be without the required financial assurance:

(a) In the event of bankruptcy of the trustee or issuing institution; or

(b) If the authority of the trustee institution to act as trustee has been suspended or revoked; or

(c) If the authority of the institution issuing the surety bond, letter of credit, or insurance policy has been suspended or revoked.

In the event of bankruptcy of the trustee or a suspension or revocation of the authority of the trustee institution to act as a trustee, Hexcel must establish financial assurance pursuant to this Section within one hundred twenty (120) days after such an event.

5. Ecology's financial assurance officer is:

Name: Jim Knudson / Kimberly Goetz  
Address: Department of Ecology  
Hazardous Waste and Toxics Reduction Program  
P.O. Box 47600  
Olympia, Washington 98504-7600  
Telephone: (360) 407-6693  
FAX: (360) 407-6715  
E-mail: jknu461@ecy.wa.gov

#### **VIII. EFFECTIVE DATE OF ORDER**

This Order becomes effective on the date specified below.

#### **IX. SATISFACTION OF ORDER**

The provisions of this Order shall be deemed satisfied upon Hexcel's receipt of written notification from Ecology of its determination that Hexcel has completed the Remedial Action required by this Order, as amended by any modifications, and Hexcel has complied with all other provisions of this Order. Hexcel may request such determination at any time, and Ecology shall issue such written notification of its determination within sixty (60) days after receipt of said request. The provisions of this Order shall also be deemed satisfied if Hexcel enters into a consent decree that by its terms replaces this Order.

#### **X. ENFORCEMENT**

Pursuant to RCW 70.105D.050, this Order may be enforced as follows:

1. The Attorney General may bring an action to enforce this Order in a state court.
2. The Attorney General may seek, by filing an action, if necessary, to recover unreimbursed amounts spent by Ecology for Remedial Actions and orders related to the Facility.

disapprove the Draft Focused RI. If Ecology disapproves of the Draft Focused RI, Ecology will provide comments to Hexcel and the parties will establish a mutually agreed upon date for Hexcel's resubmittal of the Draft Focused RI, not to exceed thirty (30) days after Hexcel's receipt of Ecology's comments. Hexcel will then submit a revised Draft Focused RI that addresses Ecology's comments.

## **II. Focused Feasibility Study Report**

The purpose of the Focused FS is to develop and evaluate cleanup action alternatives for the Hexcel Parcels. The FFS will be consistent with WAC-173-340-350(8).

Hexcel will complete the following work for the Focused Feasibility Study:

### **Task 1. Focused Feasibility Study Work Plan**

Within sixty (60) days of receipt of Ecology's review comments on Hexcel's August 19, 2004 *Work Plan Focused Feasibility Study, Hexcel Plant 1 Facility, Kent, WA* (Hydro Geo Chem, Inc.) (the timing of which is to be determined), Hexcel will submit to Ecology a Focused Feasibility Study (FS) Work Plan for Ecology's approval. Ecology will approve, approve with conditions, or disapprove the Focused FS WP. If Ecology disapproves of the FS WP, then Ecology will provide comments to Hexcel. Hexcel shall resubmit a Final Focused FS WP that incorporates Ecology's comments, not to exceed thirty (30) days after Hexcel's receipt of Ecology's comments. Once approved, the Final Focused FS Work Plan will become incorporated into and become an enforceable part of this Exhibit.

As appropriate to the Hexcel Parcels, the FS will include the following, as described in further detail below:

- assess potential exposure pathways and migration routes for any contamination identified;
  - define cleanup action objectives including cleanup levels;
  - develop cleanup action alternatives;
  - conduct treatability studies or pilot testing to determine the applicability of potential remedial technologies;
  - evaluate cleanup alternatives individually and comparatively based on their protectiveness, permanence, cost, and other criteria identified in WAC 173-340-360; and
  - recommend a preferred cleanup action.
1. Identify contaminated media, potential exposure pathways, and migration routes

The FS will update the preliminary conceptual site model (HGC, 2004) using the results of the RI. The conceptual site model will be used to identify contaminated media, potential exposure pathways, and migration routes.

2. Develop cleanup action objectives

Cleanup action objectives will be developed to incorporate the narrative and numeric objectives identified by WAC 173-340-360. Threshold requirements for a cleanup action are:

- protection of human health and the environment,
- compliance with cleanup standards in WAC 173-340-700 through 173-340-760,
- compliance with applicable state and federal laws (WAC 173-340-710), and
- provision of compliance monitoring.

3. Develop cleanup action alternatives

Cleanup action alternatives will be developed considering the minimum requirements of WAC 173-340-360(2) and the expectations described in WAC 173-340-370. Groundwater pumping for plume containment will be one of the alternatives considered as it has already been implemented at Plant 1. The FS will identify at least one permanent remedy to the maximum extent practicable, which will be dependent upon conditions at an upgradient site. An alternative will be developed that uses hot-spot treatment and natural attenuation (WAC 173-340-370[7]). Remediation levels may be used in developing the alternatives. Additional alternatives will be developed as needed to account for different remedial technologies and implementation strategies.

4. Conduct treatability studies or pilot tests

Treatability studies or pilot tests may, upon Ecology's approval, be conducted to determine the feasibility and effectiveness of a remedial technology, and to determine physical, chemical, or biological parameters needed for remedial design. Examples of the types of studies that might be undertaken include laboratory evaluation of sediment demand for an oxidant and the pilot testing of enhanced biodegradation to select nutrient substrates and determine biodegradation kinetics.

If treatability studies or pilot testing are desired and such studies or testing require additional time for preparing the FFS, Hexcel shall submit a request to Ecology with the justification for the additional time, including a completion schedule. Ecology will then approve, approve with conditions, or disapprove said request and adjust the Focused FS Report submittal date as appropriate.

5. Evaluate cleanup action alternatives

The alternatives developed in the previous task will be evaluated against the criteria defined in WAC 173-340-360. This evaluation will establish which alternative(s) meet the threshold requirements and establish the range of costs and benefits relative to the other MTCA requirements (e.g., use of permanent solutions to the maximum extent practicable, restoration time frame). Next, the alternatives will be compared to each other. If more than one alternative is determined to meet the threshold requirements, this inter-alternative comparison will form the basis for a disproportionate cost analysis. The procedures for conducting the disproportionate cost analysis are described in WAC 173-340-360(3)(e).

Prior to evaluating the cleanup action alternatives, Hexcel may prepare, to submit to Ecology, an interim technical memorandum describing the alternatives to obtain Ecology concurrence on the scope of the alternatives.

6. Recommend preferred alternative

The results of the evaluation of alternatives will be compared to identify alternatives that provide the greatest cleanup benefit at the lowest cost. A disproportionate cost analysis (WAC 173-340-360[3] [et]) may be conducted, if needed, to compare the relative benefits of alternatives that vary significantly in cost. The cleanup action alternative that provides an adequate balance of performance and cost control will be recommended as the preferred alternative.

**Task 2: Focused Feasibility Study**

Within 120 days of Ecology's approval of the Focused FS Work Plan, Hexcel will submit to Ecology for its approval a Draft Focused FS Report that has been developed pursuant to the Focused FS Work Plan and that includes the information identified in Task 1. Ecology will then approve, approve with conditions, or disapprove the Draft Focused FS. If Ecology disapproves of the Draft Focused FS, Ecology will provide comments to Hexcel and the parties will establish a mutually agreed upon date for Hexcel's resubmittal of the Draft Focused FS, not to exceed sixty (60) days after Hexcel's receipt of Ecology's comments. Hexcel will then submit a revised Draft Focused FS that addresses Ecology's comments.

### **III. References**

Hydro Geo Chem, Inc. (HGC). 2004. Draft Work Plan for Focused Remedial Investigation Hexcel Plant 1 Facility. July 22, 2004.

SE 2100556 v2  
11/4/05 1:00 PM (17967 0001)



**EXHIBIT C**

**HEXCEL ENFORCEMENT ORDER SCHEDULE**

<b>Process Milestones</b>		
<b>Activity</b>	<b>Day</b>	<b>Comments</b>
<b>Enforcement Order Effective Date</b>	0	
<b>Groundwater Extraction System Separation Activities</b>		
Hexcel initiate preparation of King County Industrial Wastewater discharge permit application.	1	
Hexcel initiate design drawings and specifications for IAP-specified CG well system modifications	1	
Hexcel submit King County Industrial Wastewater discharge permit application and 30-day local newspaper advertisement	30	Begin King County permit review process
Hexcel initiates CG well system modifications for independent operation and discharge and initiates local O&M subcontractor selection and training	60	
Hexcel complete system modifications for independent operation and discharge up to the point of system separation	120	
King County issues final Hexcel Industrial Wastewater discharge permit	120	Assumes 90-day King County permit review
Hexcel initiate final system separation and testing	127, or 7 days after King County Discharge Permit issuance, whichever is later	
Hexcel initiate independent groundwater extraction system operations and discharge, taking over from BSB operation of wells on the Hexcel Parcels.	134, or 14 days after King County Discharge Permit issuance, whichever is later	
<b>Hexcel Remedy Selection Activities</b>		
Hexcel Initiate Focused RI/FS Activities	0	
Hexcel Submit Draft Focused RI Work Plan	30 days after the effective date of the order	
Hexcel Submit Final Focused RI Work Plan	30 days after receipt of comments from Ecology	
Hexcel Submit Draft Focused RI Report	180 days after Ecology Approval of Focused RI Work Plan	
Hexcel Submit Final Focused RI Report	30 days after receipt of comments from Ecology	
Hexcel Submit Focused FS Work Plan	60 days after receipt of comments from Ecology, timing of comments to be determined.	
Hexcel Submit Final Focused FS Work Plan	30 days after receipt of comments from Ecology	
Hexcel Submit Draft Focused FS Report	120 days after Ecology Approval of Focused FS Work Plan. If pilot testing is necessary to determine the effectiveness of a remedial alternative and such pilot testing of a remedial alternative requires additional time, then Hexcel shall submit a request to Ecology with the justification for the additional time including a completion schedule. Ecology will then approve, approve with conditions, or disapprove said request and then adjust the Focused FS Report submittal date as appropriate.	
Hexcel Submit Final Focused FS Report	60 days after receipt of comments from Ecology	



## LOG OF EXPLORATORY BORING

PROJECT NAME Hytek Finishes, Inc.  
 LOCATION Kent, WA  
 DRILLED BY Tacoma Pump & Drill  
 DRILL METHOD Cable Tool  
 LOGGED BY J. North

BORING NO CG-1  
 PAGE 1 OF 1  
 REFERENCE ELEV. '  
 TOTAL DEPTH 37.00'  
 DATE COMPLETED 4/19/89

SAMPLE ID NUMBER	SAMPLE TYPE	PENETRATION TIME/RATE	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-LOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
				0				0 - 5.0 feet: SILTY SAND; sands fine, brown, scattered coarse sand, fine gravel and cobbles, moist (SM)
S-1	SS	8-11-7 3/18		5				5.0 - 6.0 feet: SAND AND SILT; very fine, pink grays, with scattered medium and coarse sand and cobbles, saturated (SM)
S-2	SS	3-3-7 18/18		10				10.0 - 11.0 feet: SANDY SILT; very fine, gray, thinly bedded, scattered medium sand, root and wood fragments, trace clay, saturated. (SM)
S-3	SS	3-11-15 12/18		15				15.0 - 15.4 feet: SAND; fine to medium, black with white and red, thin silty interbed, scattered organics (SP)
S-4	SS	17-45-52 11/18		20				15.4 - 16.0 feet: SANDY SILT; very fine, gray, thinly bedded (SM)
				25				20.0 - 21.0 feet: SAND; fine to medium, black with white and red, thin lenses of very fine sandy silt (1/4") (SW)
S-5	SS	30-40-67 13/18		30				25.0 - 26.2 feet: SAND; as above, with thin 1 lense of coarse sand @ 25.5', thin very fine sandy silt interbeds. (SW)
S-6	SS	22-40-70 14/18		35				@ 25.0 - 25.9 feet: SAND; fine to medium, grades finer with depth, scattered wood, saturated. (SP)
				35				@ 25.9 - 26.2 feet: SANDY SILT; very fine, thinly bedded, saturated (SM)
		10-27-35 /18		40				35.0 - 36.0 feet: SILTY SAND; very fine, interbedded with sandy silt, organic rich, saturated. (SM)

**REMARKS**

Well construction details: 0-12', Enviroplug medium Bentonite Chips; 12-18', Colorado Silica Sand 30-60; 18-35', Colorado Silica Sand 20-40. Well constructed of 6' stainless steel.



# LOG OF EXPLORATORY BORING

PROJECT NAME Hytek Finishes, Inc.  
 LOCATION Kent, WA  
 DRILLED BY Tacoma Pump & Drill  
 DRILL METHOD Cable Tool  
 LOGGED BY J. North

BORING NO. CG-2  
 PAGE 1 OF 1  
 REFERENCE ELEV. '  
 TOTAL DEPTH 36.00'  
 DATE COMPLETED 4/19/89

SAMPLE ID NUMBER	SAMPLE TYPE	PENETRATION TIME/RATE	GROUND WATER LEVELS	DEPTH IN FT.	LITHOLOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
							---topsoil, roots
S-1	GRAB			5			@ 2' cobbles in silt
							5.0 - 6.0 feet: CLAYEY SILT; gray with brown silt, moist, trace very fine sand, scattered coarse sand and fine gravel (ML)
S-2	GRAB			10			10.0 - 11.0 feet: SANDY SILT; fine, gray with brown silts, saturated, sands black and gray, very fine to fine, trace fine gravel. (SM)
S-3	GRAB			15			15.0 - 16.0 feet: SILTY SAND; very fine, dark gray with dark brown peat like material, moist. (SM)
S-4	GRAB			20			20.0 - 21.0 feet: SAND; fine to medium, scattered coarse, dark gray to black with white and red, some cobbles to 2" (SW)
S-5	GRAB			25			25.0 - 26.0 feet: SAND; fine to medium, black with white and red, scattered coarse (SW)
S-6	GRAB			30			30.0 - 31.0 feet: SAND; fine to medium as above, less coarse, gray thinly bedded silt with roots and organics. (SW)
S-7	GRAB			35			35.0 - 36.0 feet: SAND; fine to medium with scattered wood fragments. (SW)
				40			

**REMARKS**

Well construction details: 0-12', Enviroplug medium Bentonite Chips; 12-18', Colorado Silica Sand 30-60; 18-30', Colorado Silica Sand 20-40 Well constructed of 6" stainless steel



# LOG OF EXPLORATORY BORING

PROJECT NAME Hytek Finishes, Inc.  
 LOCATION Kent, WA.  
 DRILLED BY Tacoma Pump & Drill  
 DRILL METHOD Cable Tool  
 LOGGED BY J. North

BORING NO CG-3  
 PAGE 1 OF 1  
 REFERENCE ELEV  
 TOTAL DEPTH 36.00'  
 DATE COMPLETED 4/18/89

SAMPLE ID NUMBER	SAMPLE TYPE	PENETRATION TIME/RATE	GROUND WATER LEVELS	DEPTH IN FT.	LITHO-LOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
S-1	GRAB			5			5.0 - 5.6 feet: SILTY SAND; fine, light gray to brown, scattered wood, root fragments and cobbles, moist (SM)
				10			5.6 - 6.1 feet: SILTY CLAY; gray and oxidized orange, scattered roots, wood, thinly bedded. (ML)
S-2	GRAB			15			6.1 - 6.3 feet: SAND and SILTY SAND; dark gray, fine to medium, saturated (SM)
				20			10.0 - 11.0 feet: SANDY SILT; sands fine; gray with oxidized orange; some clay, scattered fine to medium gravels, saturated. (SM)
S-3	GRAB			25			15.0 - 16.0 feet: PEAT and SANDY SILT; dark brown, scattered coarse sand and fine gravel, wood fragments and roots, saturated. (PT/SM)
S-4	GRAB			30			20.0 - 21.0 feet: SAND; fine, trace medium and coarse, dark gray to black, saturated, with wood fragments. (SM)
S-5	GRAB			35			---SAND as above ---SAND as above
S-6	GRAB			40			@ 33' driller reports silt but no silt in cuttings. ---SAND as above

**REMARKS**

Well construction details: 0-12', Enviroplug medium Bentonite Chips; 12-18', Colorado Silica Sand 30-60; 18-30', Colorado Silica Sand 20-40. Well constructed of 6" stainless steel



## LOG OF EXPLORATORY BORING

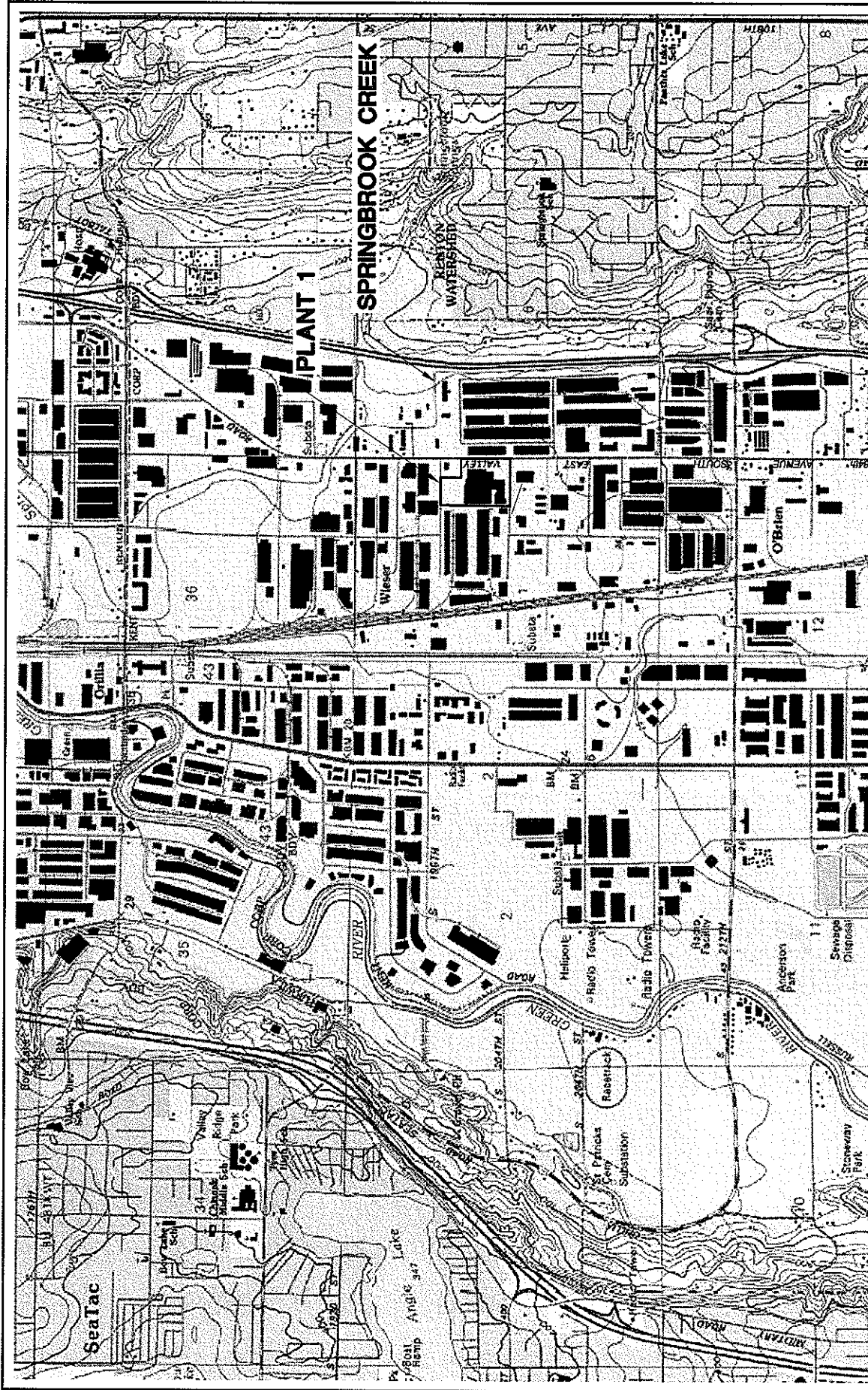
PROJECT NAME Hytek Finishes, Inc.  
 LOCATION Kent, WA.  
 DRILLED BY Tacoma Pump & Drill.  
 DRILL METHOD Cable Tool  
 LOGGED BY J North

BORING NO. CG-4  
 PAGE 1 OF 1  
 REFERENCE ELEV  
 TOTAL DEPTH 36.00'  
 DATE COMPLETED 4/13/89

SAMPLE ID NUMBER	SAMPLE TYPE	PENETRATION TIME/RATE	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHO-LOGIC COLUMN	WELL DETAILS	LITHOLOGIC DESCRIPTION
				0				0 - 3.0 feet: Fill dirt with concrete slabs, silty sand with gravel
S-1	GRAB			5				
				10				10.0 - 11.0 feet: SANDY SILT; fine, gray, some clay, scattered organic fragments, moist (SM)
S-2	GRAB			15				15.0 - 16.0 feet: CLAYEY SILT; gray, with wood fragments, scattered fine gravels, moist. (ML)
S-3	GRAB			20				20.0 - 21.0 feet: PEAT; with thin interbeds of fine sandy silt, dark brown to gray, 70% organic wood fragments, scattered fine gravels, moist. (PT)
S-4	GRAB			25				25.0 - 32.0 feet: SAND; fine to medium, black with white and red, trace coarse, scattered wood and silt, saturated (SM)
				30				--SAND as above
S-5	GRAB			35				35.0 - 36.0 feet: CLAYEY SILT; tan with pink, interbedded with fine to medium sand, very plastic, saturated (ML)
				40				



**REMARKS**  
 Well construction details: 0-12', Enviroplug medium Bentonite Chips; 12-18', Colorado Silica Sand 30-60; 18-30', Colorado Silica Sand 20-40. Well constructed of 6" stainless steel.



SOURCE:  
USGS 7.5-minute quadrangle maps for Renton and Des Moines, WA  
(1949, photorevised 1994-1995).

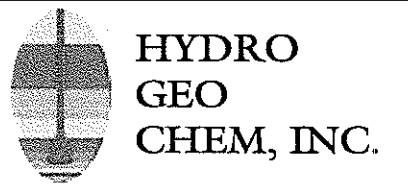
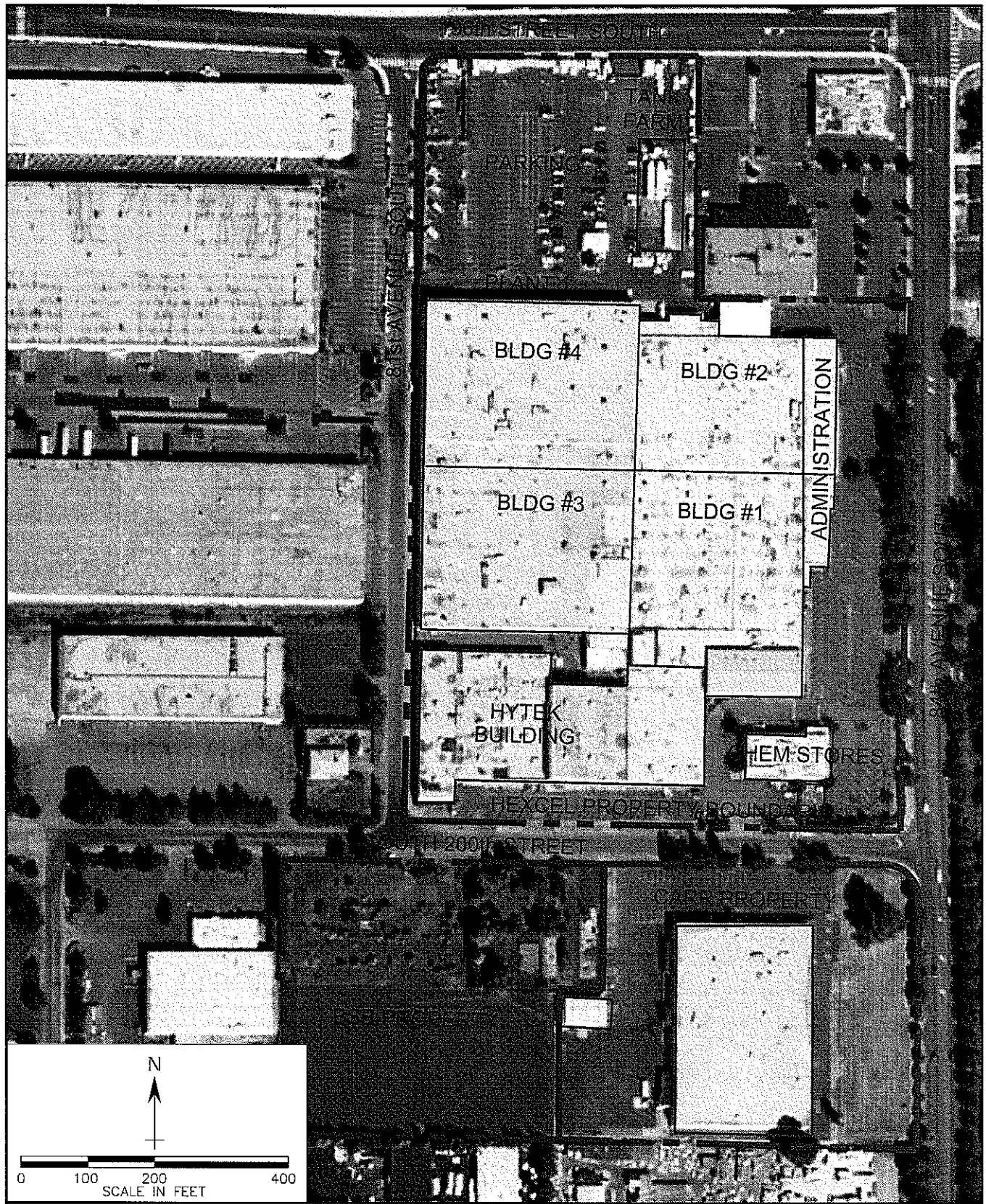


**HYDRO  
GEO  
CHEM, INC.**

**MAP OF HEXCEL PLANT 1  
AND ADJACENT AREAS**



Approved <b>JP</b>	Date <b>6/17/04</b>	Revised	Date	Reference: <b>72210012</b>	FIG. <b>1</b>
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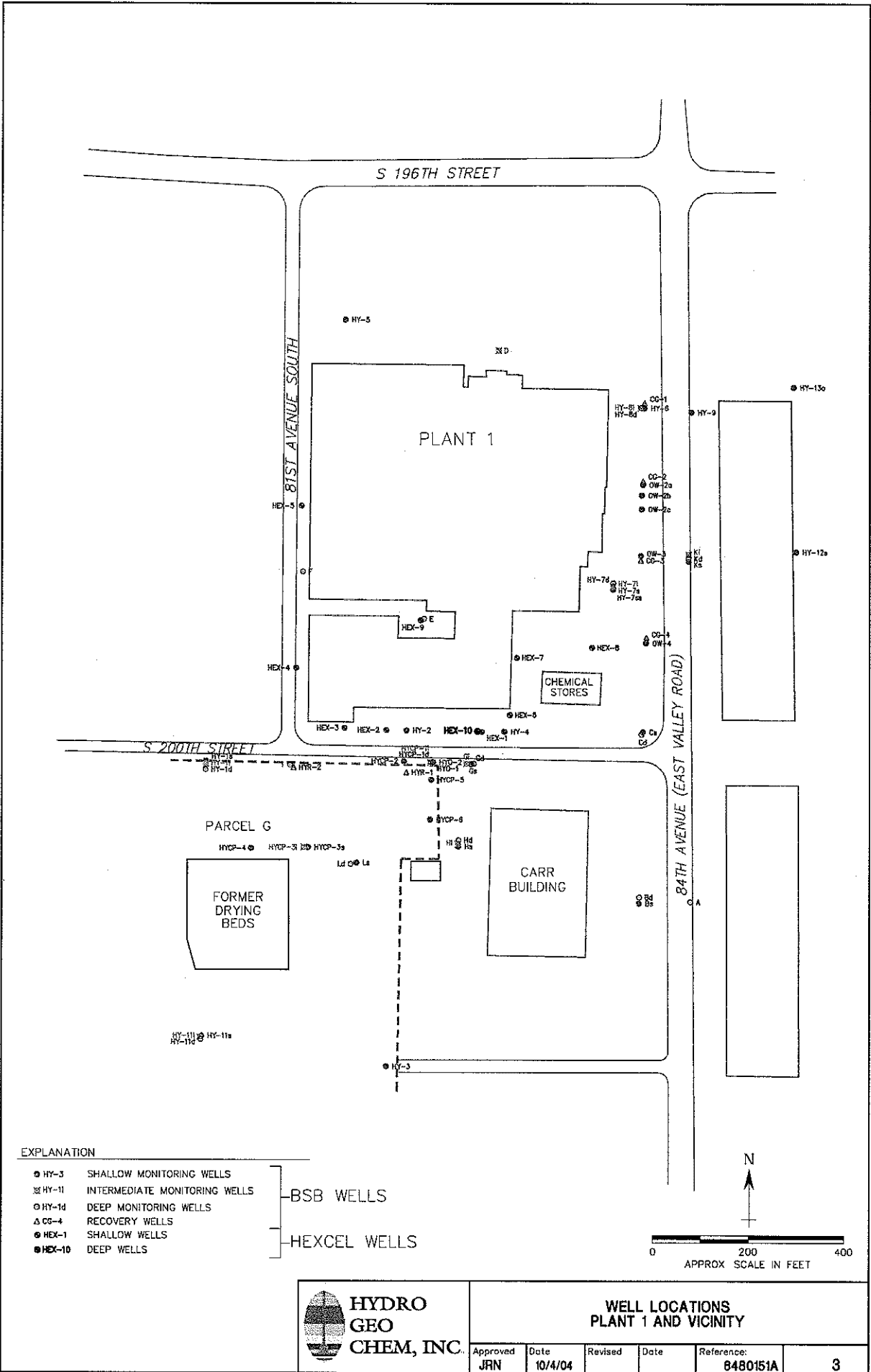


**HYDRO  
GEO  
CHEM, INC.**

**HEXCEL PLANT 1 BUILDINGS**

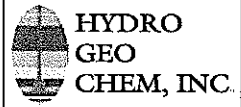
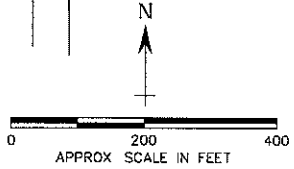
Approved <b>JN</b>	Date <b>10/4/04</b>	Revised	Date	Reference: <b>72210029</b>	FIG <b>2</b>
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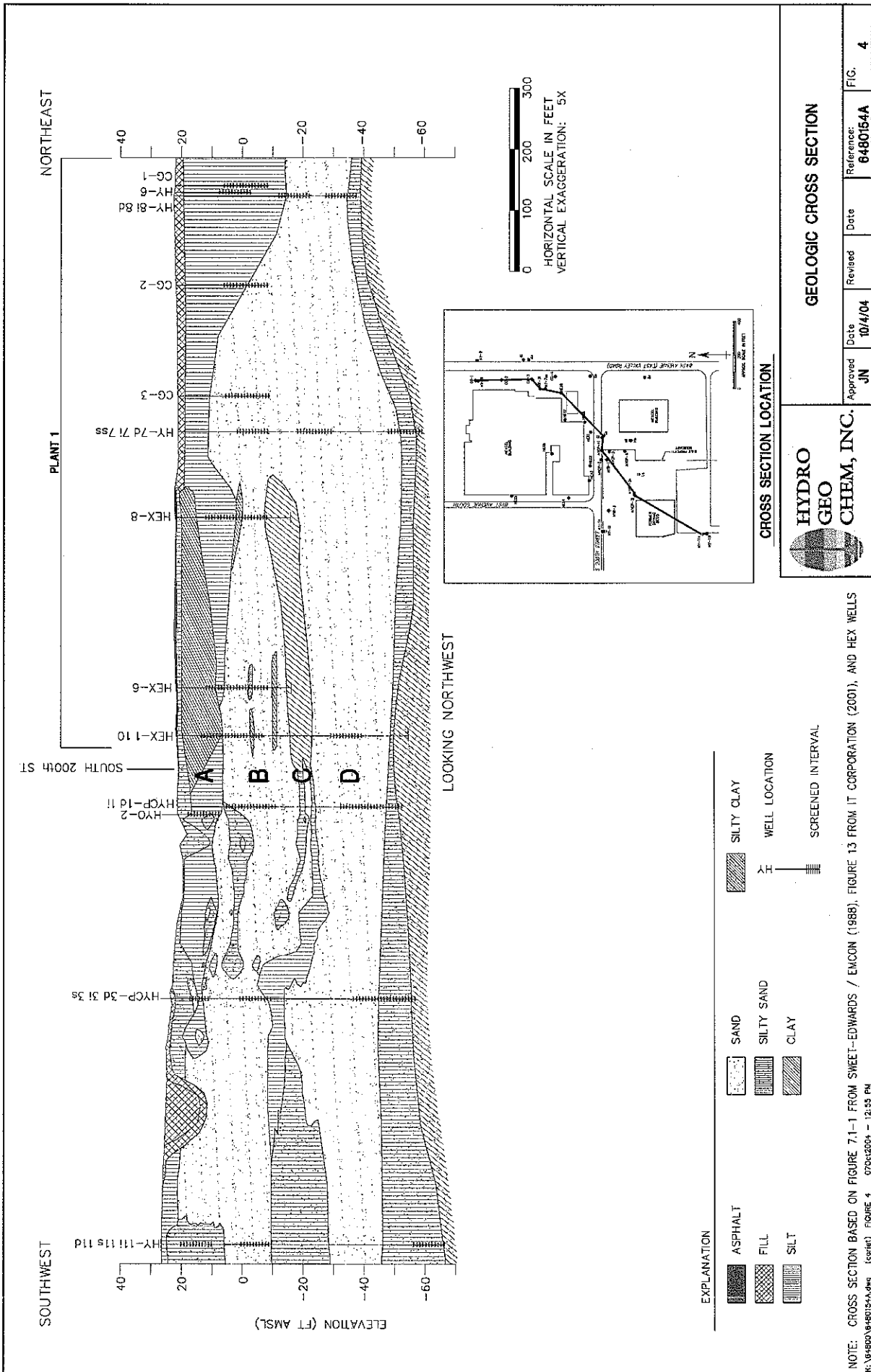
**EXPLANATION**

- |          |                               |                |
|----------|-------------------------------|----------------|
| ● HY-3   | SHALLOW MONITORING WELLS      | } BSB WELLS    |
| ⊠ HY-11  | INTERMEDIATE MONITORING WELLS |                |
| ○ HY-1d  | DEEP MONITORING WELLS         |                |
| △ CC-4   | RECOVERY WELLS                | } HEXCEL WELLS |
| ● HEX-1  | SHALLOW WELLS                 |                |
| ● HEX-10 | DEEP WELLS                    |                |

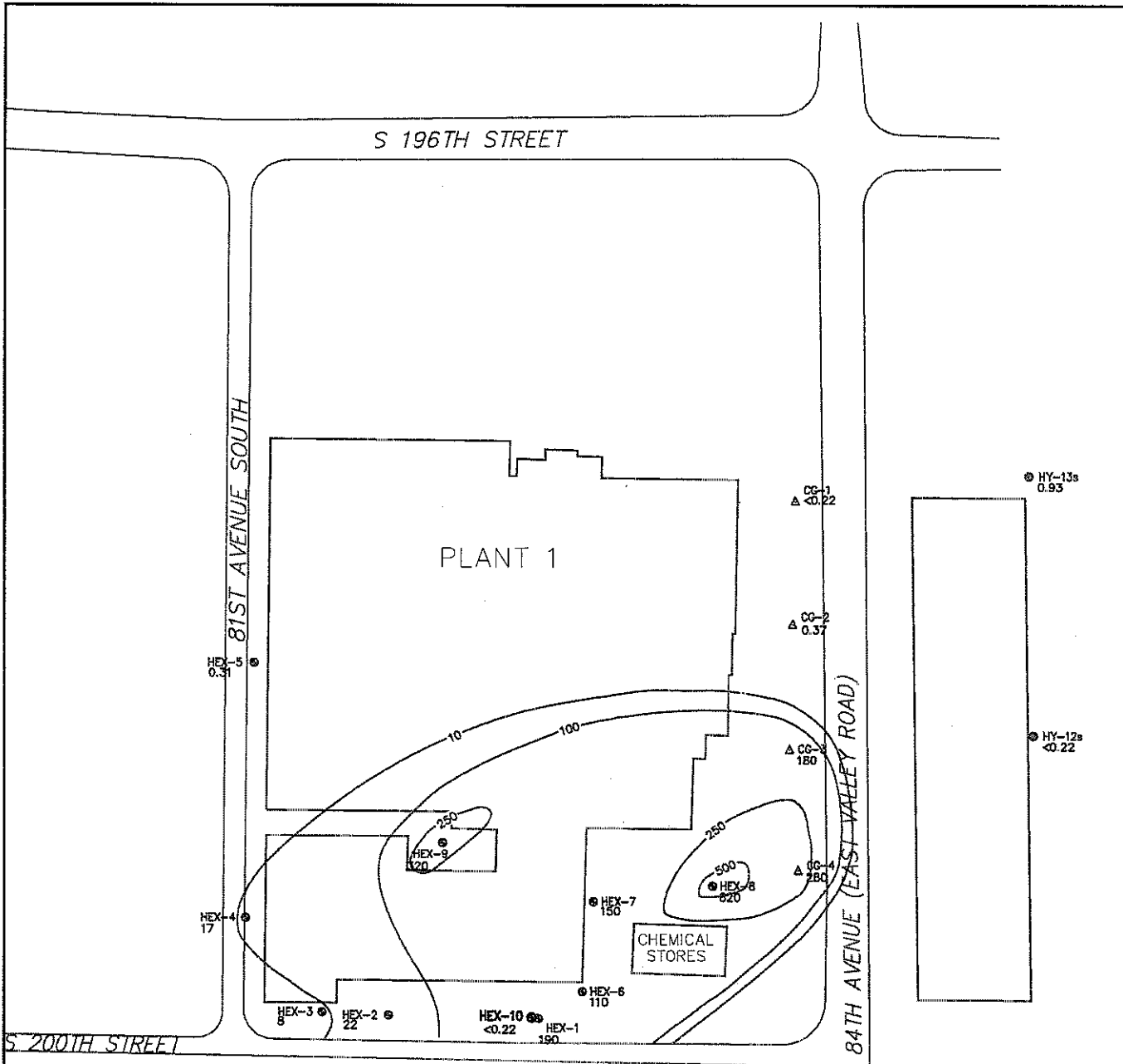


**WELL LOCATIONS  
PLANT 1 AND VICINITY**

Approved JRN	Date 10/4/04	Revised	Date	Reference: 8480151A	3
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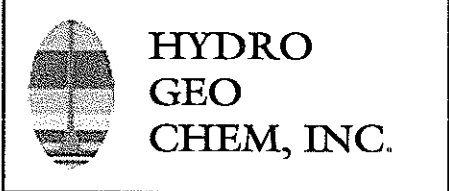
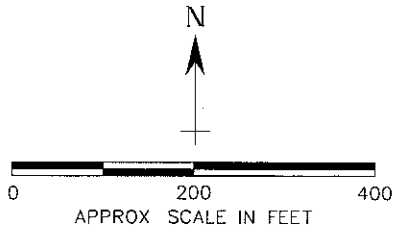
NOTE: CROSS SECTION BASED ON FIGURE 7.1-1 FROM SWEET-EDWARDS / ENCON (1986), FIGURE 13 FROM IT CORPORATION (2001), AND HEX WELLS  
 I:\V4800\6480154A.dwg (corner) FIGURE 4 07oct2004 - 12:55 PM



**EXPLANATION**

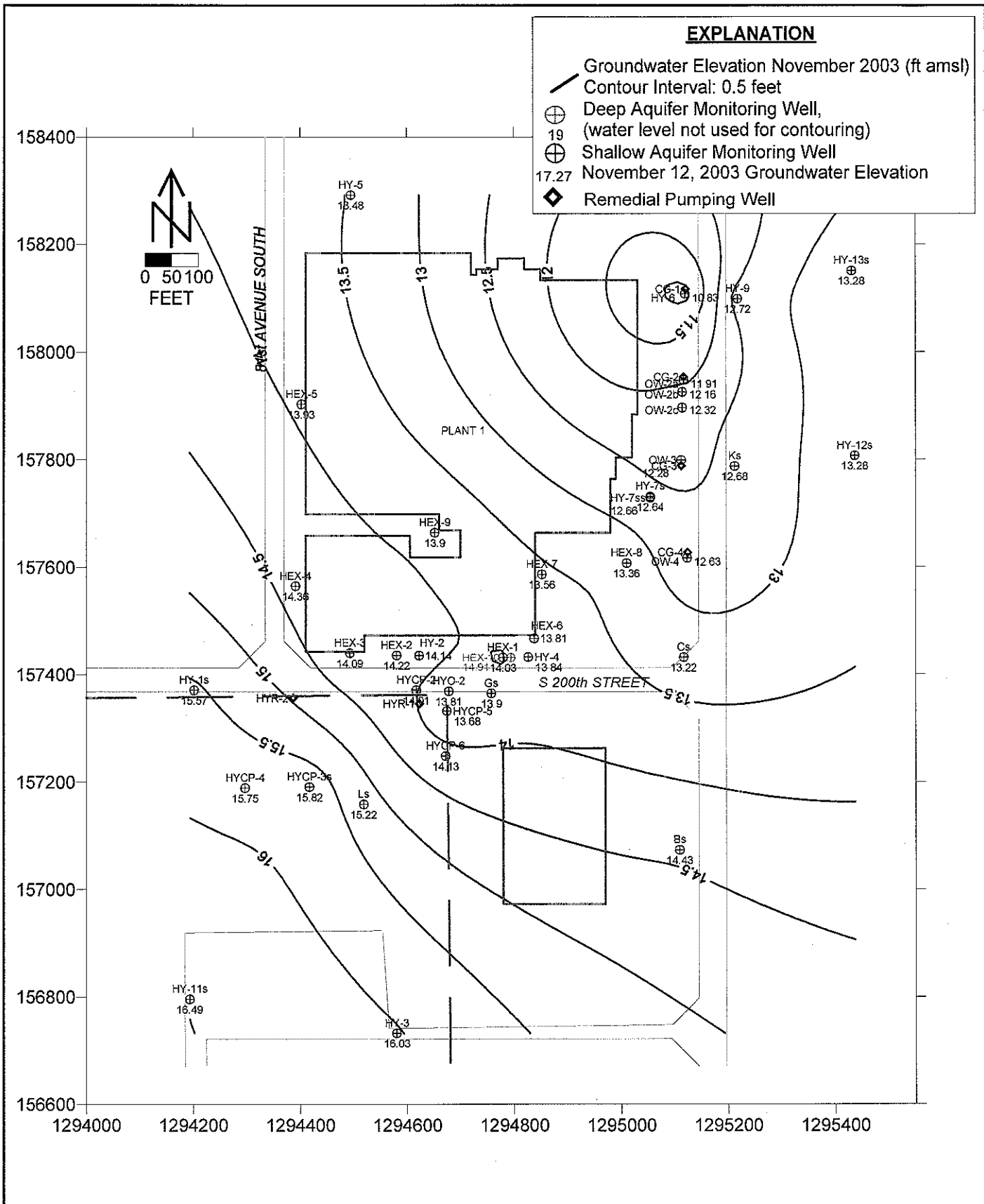
- HY-3 SHALLOW MONITORING WELLS
  - ▲ CG-4 RECOVERY WELLS
  - HEX-1 SHALLOW WELLS
  - HEX-10 DEEP WELLS
- } BSB WELLS
- } HEXCEL WELLS

**NOTES:**  
 HY-12s AND HY-13s SAMPLED JANUARY 2004  
 HEX SAMPLED MARCH 2004  
 CG SAMPLED APRIL 2004



**VINYL CHLORIDE CONCENTRATIONS (ug/L)  
 IN GROUNDWATER SAMPLES  
 FIRST HALF 2004**

Approved <b>JN</b>	Date <b>10/4/04</b>	Revised	Date	Reference: <b>6480153A</b>	FIG <b>5</b>
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**HYDRO  
GEO  
CHEM, INC.**

**GROUNDWATER ELEVATIONS  
NOVEMBER 12, 2003**

APPROVED	DATE	REFERENCE	FIGURE
JRN	10/4/04	H:/64800/2004/Surfer/11-03wl.srf	6

NOTE:  
 PIPING LAYOUT BASED ON ORIGINAL  
 CONSTRUCTION DRAWINGS BY SWEET-  
 EDWARDS EMCON, 1989

HEXCEL  
 BUILDING

81st AVE SOUTH

BURIED 1-1/2" PVC,  
 TYP 4, ELEC. CONDUIT,  
 INSTRUMENT CABLE

APPROX. LOCATION OF  
 ELEC PNL PDP-4109A

CHEMICAL  
 STORES

CG-1  
 CG-2  
 CG-3  
 CG-4

SEWER  
 CONNECTION

CLEANOUT  
 PORTS

S 200th ST

HYR-2

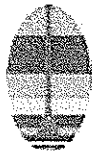
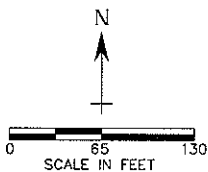
HYR-1

TRENCH WITH  
 WIRING & PIPING

TREATMENT SYSTEM  
 & METRO SEWER  
 DISCHARGE

CARR  
 BUILDING

84TH AVE (E VALLEY RD)



**HYDRO  
 GEO  
 CHEM, INC.**

**EXISTING GROUNDWATER  
 PUMPING SYSTEM**

Approved <b>PM</b>	Date <b>10/07/04</b>	Revised	Date	Reference: <b>6480152A</b>	FIG. <b>7</b>
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**NOTE:**  
SEWER LAYOUT BASED ON  
CITY OF KENT RECORD  
DRAWINGS.

HEXCEL  
BUILDING

81st AVE SOUTH

CG-1  
CG-2  
CG-3  
CG-4

POINT OF CONNECTION  
TO SANITARY SEWER

APPROX. LOCATION OF  
ELEC. PNL. PDP-4109A

CHEMICAL  
STORES

SEWER  
CONNECTION

NEW CONDUIT,  
INSTR. CABLE

NEW PIPING,  
CONDUIT,  
INSTR. CABLE

S 200th ST

HYR-2

HYR-1

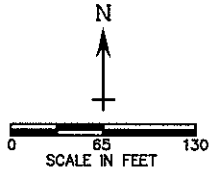
CUT & CAP  
EXISTING PIPING, CONDUIT.  
ABANDON IN PLACE

EXISTING  
SANITARY  
SEWER

TREATMENT SYSTEM  
& SANITARY SEWER  
DISCHARGE

CARR  
BUILDING

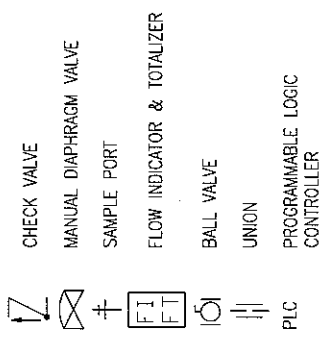
84TH AVE (E VALLEY RD)



**HYDRO  
GEO  
CHEM, INC.**

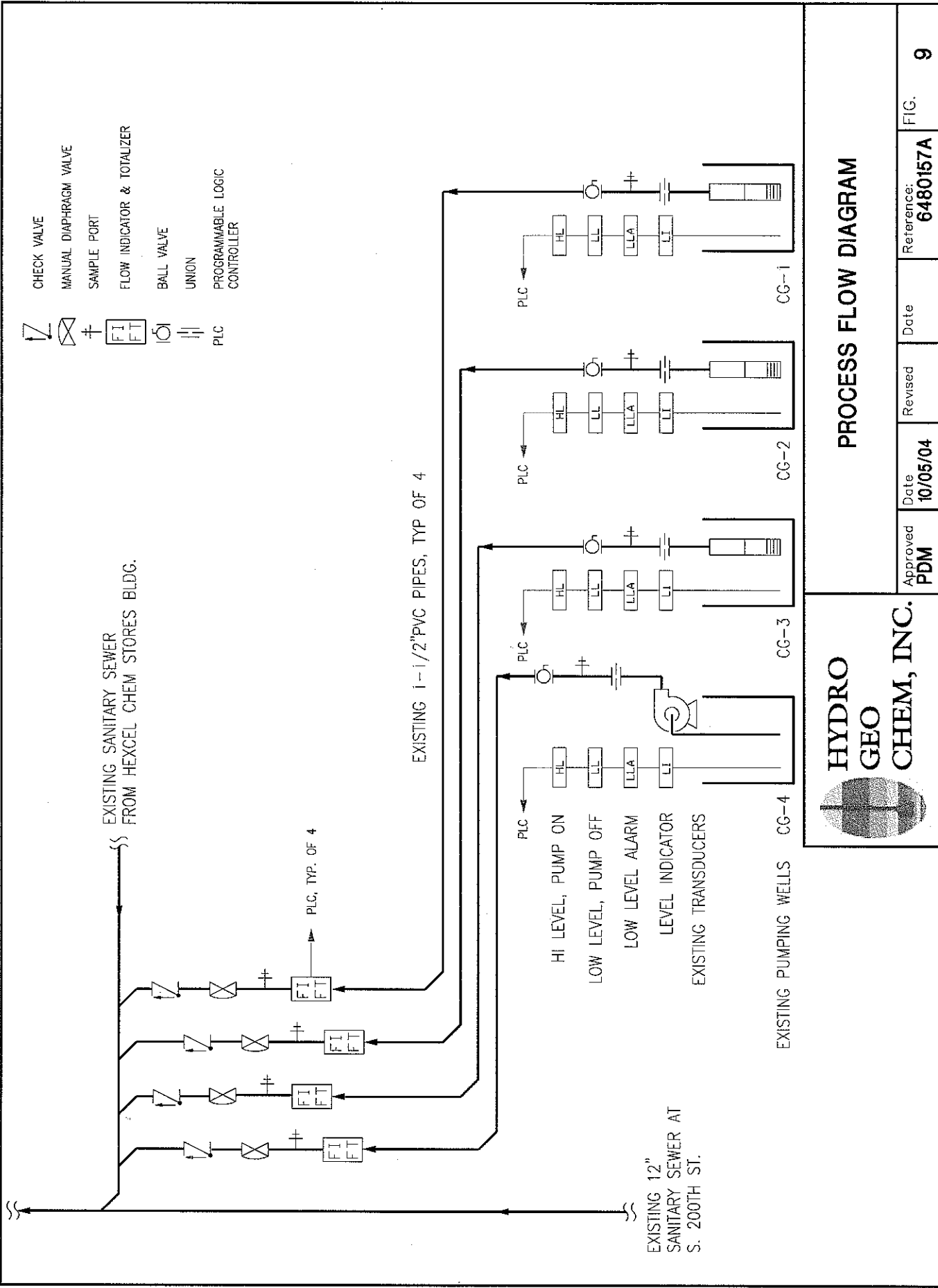
**PROPOSED MODIFICATIONS TO GROUNDWATER  
PUMPING SYSTEM**

Approved <b>PM</b>	Date <b>10/12/04</b>	Revised	Date	Reference: <b>6480155A</b>	FIG <b>8</b>
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EXISTING SANITARY SEWER FROM HEXCEL CHEM STORES BLDG.

EXISTING 1-1/2" PVC PIPES, TYP OF 4

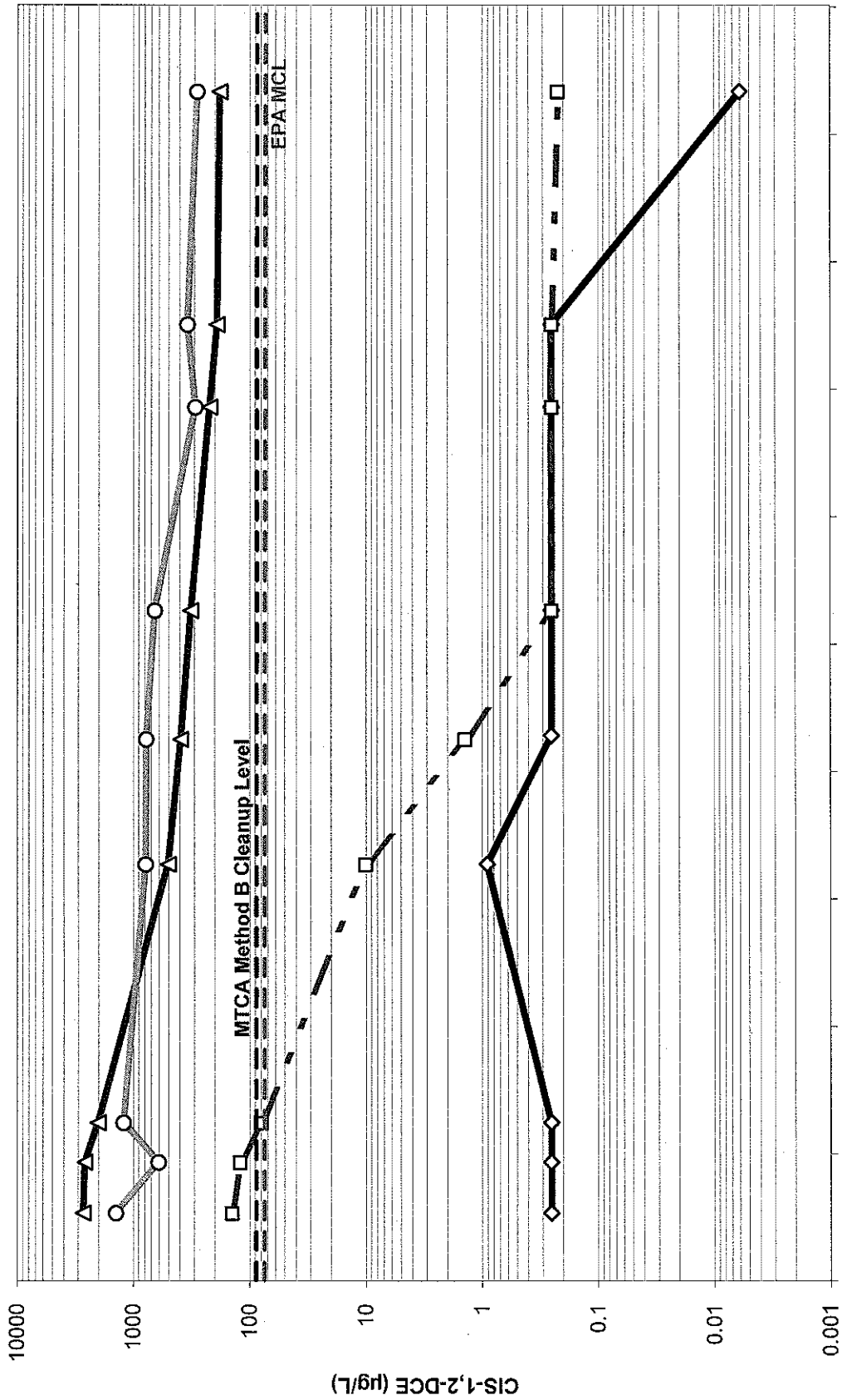


EXISTING 12" SANITARY SEWER AT S. 200TH ST.



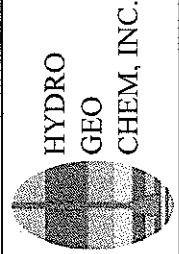
PROCESS FLOW DIAGRAM

Approved <b>PDM</b>	Date <b>10/05/04</b>	Revised	Date	Reference: <b>6480157A</b>	FIG. <b>9</b>
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**EXPLANATION**

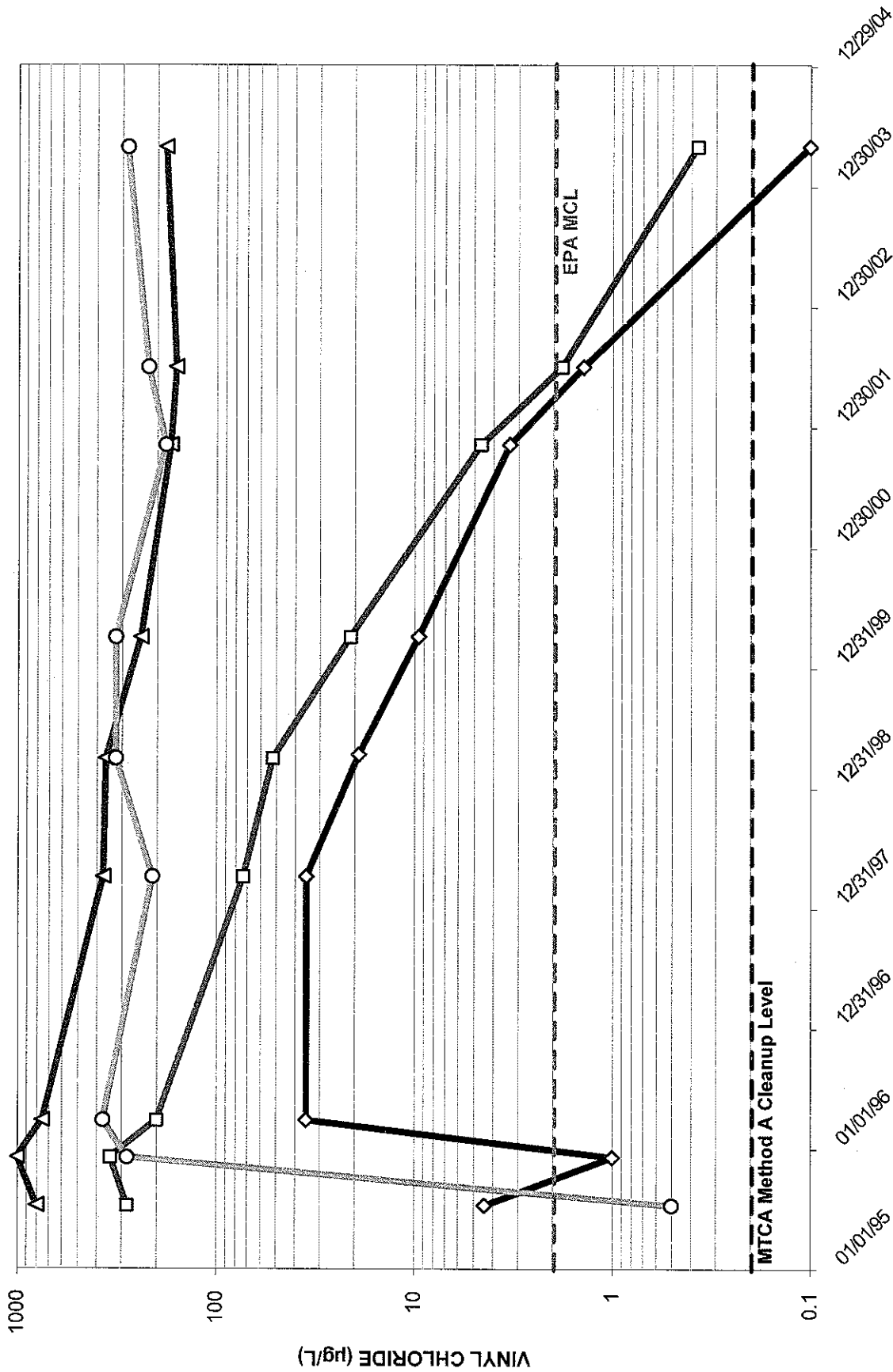
- ◆ CG-1
- ◻ CG-2
- ◄ CG-3
- CG-4



**cis-1,2-DCE CONCENTRATIONS (µg/L)  
IN CG WELLS**

APPROVED: JN      DATE: 10/7/04      FIGURE: 10





**EXPLANATION**

- ◆ CG-1
- ◻ CG-2
- ▲ CG-3
- CG-4

**HYDRO GEO CHEM, INC.**

**VINYL CHLORIDE CONCENTRATIONS (µg/L) IN CG WELLS**

APPROVED: JN      DATE: 10/7/04      FIGURE: 11



**TABLE 3**  
**Potentially Applicable Groundwater Guidance Levels**

Constituent	MTCA Method A Cleanup Level (µg/L)	MTCA Method B Cleanup Level (µg/L)	EPA MCL (µg/L)
cis-1,2-Dichloroethene	none	80	70
Vinyl Chloride	0.2	0.029	2

*Notes:*

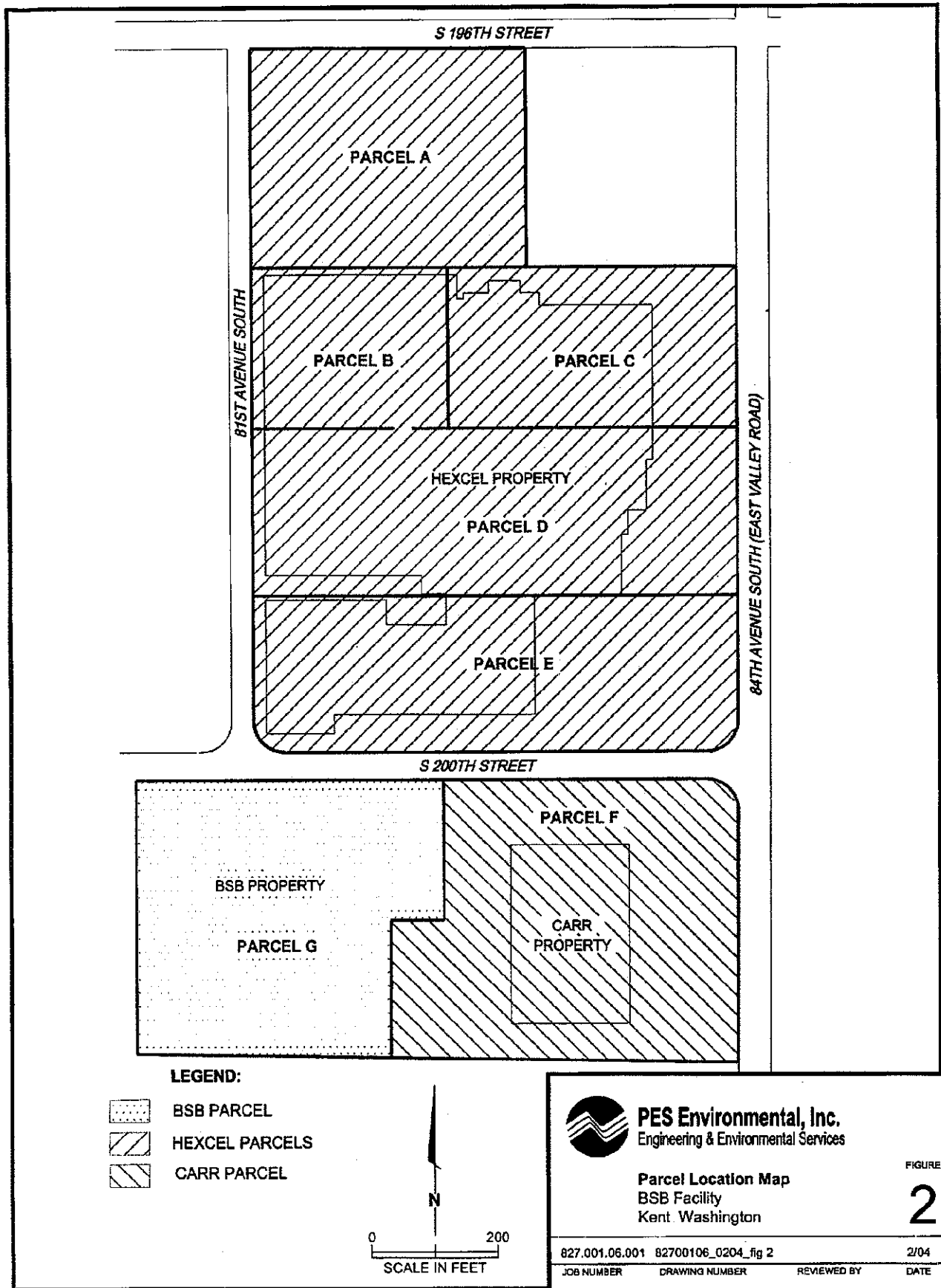
*EPA = U.S. Environmental Protection Agency*

*MCL = Maximum contaminant level*

*MTCA = Model Toxics Control Act*

*µg/L = Micrograms per liter*





**Exhibit A**  
**Parcel & Property Diagram**



SEE BSB DIVERSIFIED file for joint Agreed Order  
DE 2553 which is a joint order with Hexcel & BSB

B. S. B. DIVERSIFIED COMPANY, INC.  
&  
HEXCEL CORPORATION  
MTCA AGREED ORDER No. DE 2553

ATTACHMENTS:

1. AGREED ORDER No. DE 2553
2. BSB Hexcel AO Exhibit A.pdf
3. Exhibit B1 (Downgradient SOW addendum).pdf
4. BSB Hexcel AO Exhibit B2 (Downgradient SOW).pdf
5. 20050607-Revised\_BSBHexcel\_AO\_Exhibit\_C\_Schedule.pdf