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CONSTRUCTION DOCUMENTATION REPORT FOR INTERIM REMEDIAL ACTION AT STUDY AREA 17 NTC ORLANDO FL

8/19/2003

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Subject: Contract No. N62467-98-D-0995
Contract Task Order No. 0017
Naval Training Center (NTC) Orlando – Orlando, Florida
Construction Documentation Report for IRA at Study Area 17

Dear Ms. Nwokike:

Enclosed please find 1 hard copy and 2 CD ROM copies of the Construction Documentation Report for the Interim Remedial Action at Study Area 17, Naval Training Center, Orlando. Copies are also being distributed to members of the Orlando Partnering Team.

If you have any questions regarding this document, please call.

Sincerely,

CH2M HILL CONSTRUCTORS, Inc.

Steven N. Tsangaris, P.E.
Project Manager

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Mike Singletary, SOUTHDIV
CCI Project File No. 152044

Construction Documentation Report
Interim Remedial Action at Study Area 17

Naval Training Center Orlando
Orlando, Florida

Revision 00

Contract No. N62467-98-D-0995
Contract Task Order No. 0017

Submitted to:

U.S. Naval Facilities
Engineering Command
Southern Division

Prepared by:

CH2MHILL
Constructors, Inc.

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August 2003

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Steven N. Tsangaris, Project Manager Date

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Client Acceptance:

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U.S. Navy Responsible Authority Date

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Acronyms and Abbreviations

3-D	three dimensional
ABB	ABB Environmental Services, Inc.
bls	below land surface
CCI	CH2M HILL Constructors, Inc.
CDR	Construction Documentations Report
CompQAP	Comprehensive Quality Assurance Plan
CTO	Contract Task Order
CVOCs	chlorinated volatile organic compounds
DCA	dichloroethane
DCE	dichloroethene
DNAPL	dense non-aqueous phase liquid
DPDO	Defense Property Disposal Office
DPT	direct push technology
DRO	diesel-range organics
EVS	environmental visualization system
FDEP	Florida Department of Environmental Protection
GCI	Geo-Cleanse International
GCTLs	Groundwater Cleanup Target Levels
gpm	gallons per minute
GRO	gasoline-range organics
HLA	Harding Lawson Associates
IRA	Interim Remedial Action
ISCO	in-situ chemical oxidation
µg/L	micrograms per liter
mg/L	milligrams per liter
NAVFAC	Naval Facilities Engineering Command
NTC	Naval Training Center
OPT	Orlando Partnering Team

PAH	polynuclear aromatic hydrocarbons
PID	photoionization detector
ppm	parts per million
psi	pounds per square inch
RAOs	remedial action objectives
RGs	remediation goals
SA	Study Area
SSR	Site Screening Report
TCE	trichloroethene
VOCs	volatile organic compounds

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI) has been contracted by the Department of the Navy, Southern Division, Naval Facilities Engineering Command (NAVFAC), to prepare this Construction Documentation Report (CDR) that presents the results from the implemented Interim Remedial Action (IRA) at Study Area 17 (SA-17). This work was performed under the Remedial Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) 0017 at Naval Training Center (NTC) Orlando in Orlando, Florida. The purpose of this CDR is to summarize the results of the in-situ chemical oxidation (ISCO) treatment using Fenton's reagent.

1.1 Report Organization

This CDR consists of the following sections, including this introductory section:

1.0 Introduction—Presents the purpose of the report and information regarding site background, geology and hydrogeology, and previous investigations performed at SA-17.

2.0 Summary of In Situ Chemical Oxidation Interim Remedial Action—Summarizes the field activities and conclusions from the ISCO injection events at SA-17.

3.0 Recommendations—Provides recommendations for future site activities.

4.0 References—Lists the references used in this document.

Appendices A through C—Contain data summary tables from various pre-IRA investigation activities and performance monitoring events following the injections.

Tables and figures appear at the end of their respective sections.

1.2 Site Background

SA-17 occupies approximately 25 acres in the central part of the McCoy Annex. The site includes Buildings 7178, 7190, 7189, and the adjacent area that formerly served as the Defense Property Disposal Office (DPDO) complex for the McCoy Annex. The southwestern corner of the site is undeveloped. A shallow canal that drains to the east extends along the entire southern boundary of the site. Figure 1-1 depicts the SA-17 site and surrounding property.

SA-17 is a former motor pool area that included a vehicle wash rack and historic drum storage of waste fuel, oil, and ethylene glycol. The target treatment area has a relatively flat topography at approximately 90 feet above sea level with the shallow canal boarding the treatment area on the south/southwest.

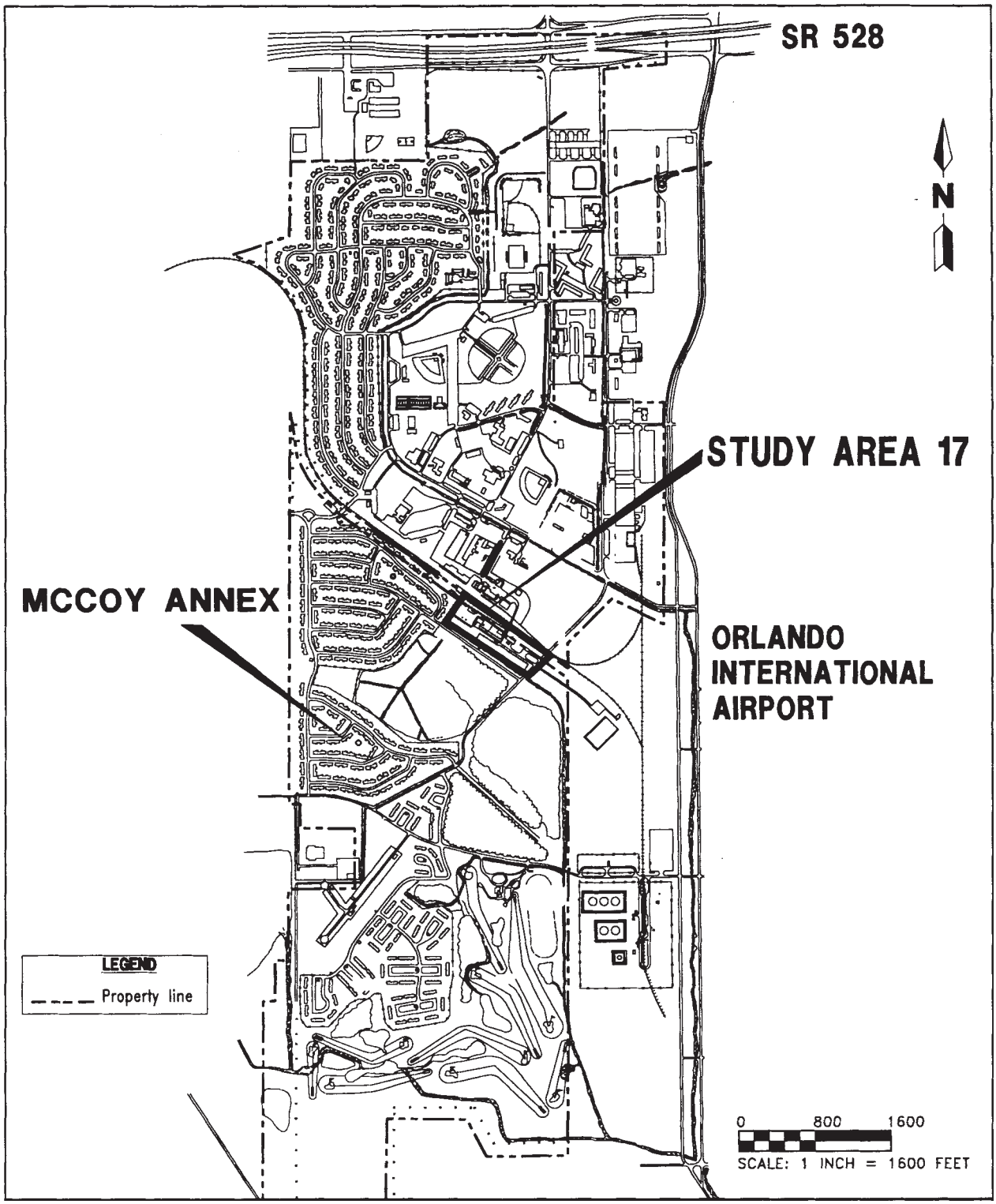


FIGURE 1-1
Site Plan
Study Area 17, Naval Training Center
Orlando, Florida

1.3 Previous Investigations

To identify and evaluate areas where environmental media may have been adversely impacted by past site activities, an initial site screening investigation was performed in 1995 by ABB Environmental Services, Inc. (ABB). Findings from that investigation indicated exceedances of screening criteria for polynuclear aromatic hydrocarbons (PAHs) in soil and chlorinated volatile organic compounds (CVOCs) in groundwater (ABB, 1995). Subsequently, the Orlando Partnering Team (OPT) requested that Harding Lawson Associates (HLA) perform supplemental screening investigations to evaluate and characterize the PAH and CVOC contamination at the site. These supplemental screening activities performed from January 1997 to August 1998 are summarized in the *Base Realignment and Closure Environmental Site Screening Report (SSR), Study Area 17* (HLA, 1999).

The results of the supplemental screening investigation indicated that the source of CVOC-contaminated groundwater at the site is suspected to be related to operations at the former motor pool area. The highest total CVOC concentration detected during the investigation was 65,000 micrograms per liter (µg/L).

In the SSR, HLA recommended the removal of PAH-impacted surface and subsurface soil above the screening criteria. In addition, HLA recommended a natural attenuation assessment of CVOCs in groundwater and a preliminary risk evaluation to determine exposure risk from contaminants in the drainage canal.

The OPT requested that CCI perform an IRA, consisting of confirming site conditions, development of an IRA approach, and implementation of an appropriate IRA. CCI developed a two-phased approach. The objectives of the Phase I site characterization were to evaluate site hydrogeologic and geochemical conditions using existing monitoring wells and available data and to identify data gaps. During the Phase I characterization study, 14 existing monitoring wells were sampled on February 23 to 29, 2000, and analyzed for volatile organic compounds (VOCs).

The objectives of the Phase II site characterization were to complete the delineation (nature and extent) of the contamination and obtain additional information on site-specific geologic conditions, especially as they relate to the potential implementation of specific interim remedial actions. Site characterization activities using a direct push technology (DPT) rig were conducted at the site from March 21 to April 7, 2000. Following the DPT sampling activities, four additional monitoring wells, identified as OLD-17-34A, OLD-17-35B, OLD-17-37C, and OLD-17-36B, were installed at the SA-17 site. During the Phase II site characterization, soil and groundwater samples from contaminated areas at the site were collected and provided to potential IRA subcontractors for bench scale treatability testing. The results of the Phase I/II site characterization activities are documented in the *Technical Memorandum: Phase I and II Data Report for Study Area 17, NTC Orlando* (CCI, 2000a).

CVOCs adversely impacted the groundwater throughout the surficial aquifer and in isolated areas within the upper part of the intermediate aquifer of the Hawthorn Group sediments. Given the contaminant distribution pattern, the plume appeared to have originated from two release points at the surface located in the western and central parts of the former motor pool area. In the western source area, compounds detected at the highest concentrations were cis-1,2-DCE and vinyl chloride with a maximum concentration of

400 μg/L. In the eastern source area, trichloroethene (TCE) was the predominant compound detected, with a maximum concentration of 65,000 μg/L. The highest contaminant concentrations were detected at the water table interface in the source areas and along the upper surface of a silty sand layer that is located between 15 and 25 feet below land surface (bls). This layer and another somewhat deeper layer of silty sand act as apparent aquitards that divide the surficial aquifer into three units – shallow, intermediate, and deep.

As a result of the Phase I/II site characterization, the interrupted areal extent of the plume extended at the water table interface from both source areas for a distance of approximately 50 to 100 feet in the direction of groundwater flow (east-southeast). In the intermediate unit of the surficial aquifer, the plume extended to a distance of approximately 250 feet downgradient, and in the deep unit of the aquifer, the plume extended approximately 300 feet from the source areas.

1.4 Site Geology and Hydrogeology

Soils at SA-17 are typically tan to gray, fine-grained, quartz sand to silty quartz sand, extending to a depth of approximately 26 feet below grade, comprising a shallow surficial aquifer overlying the Hawthorn Group. A lithologic cross-section of the SA-17 site is shown on Figure 1-2.

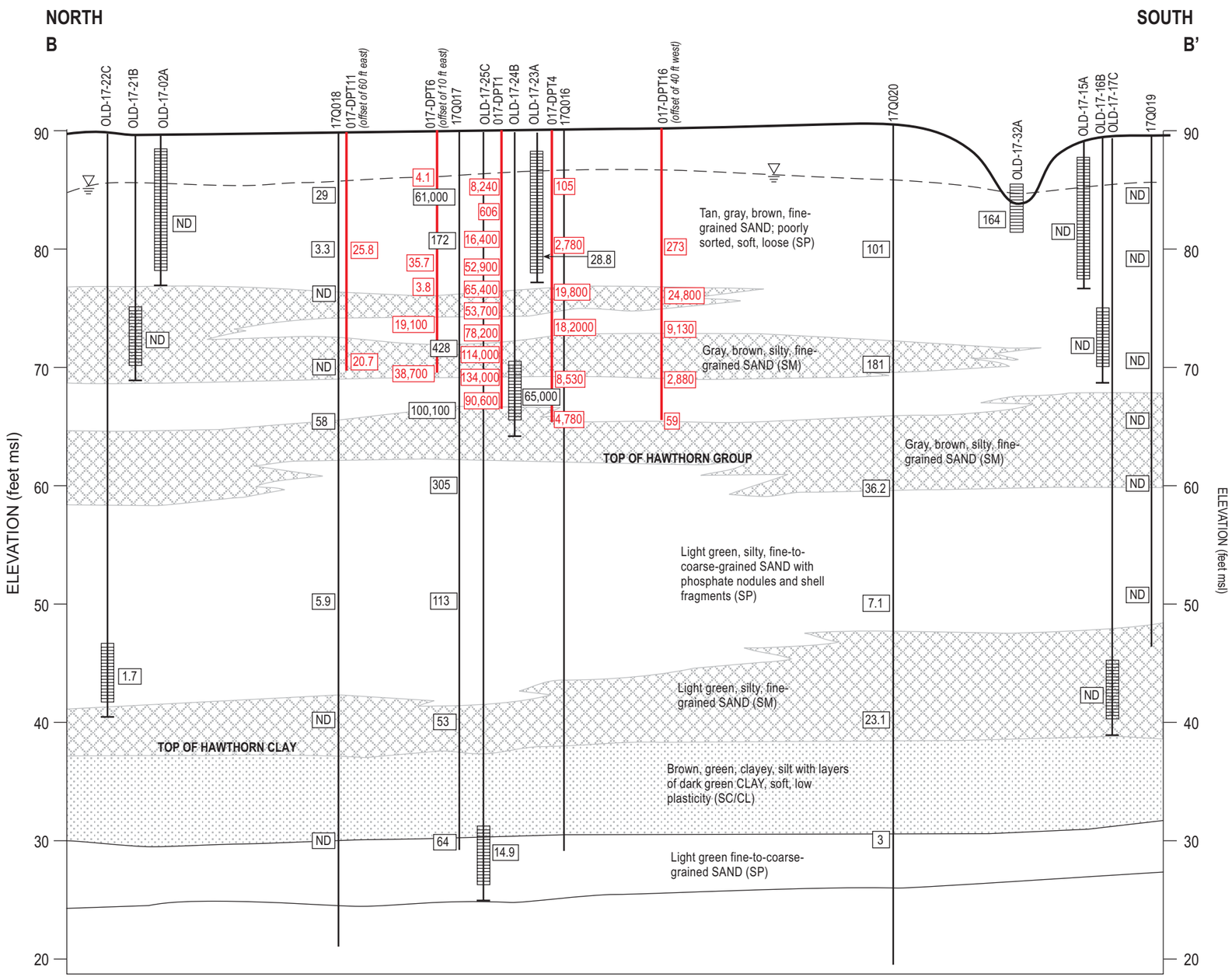
Groundwater is initially encountered at approximately 6 feet below grade. The horizontal gradient ranges from 0.003 to 0.004 feet/foot. A downward vertical hydraulic gradient of 0.007 to 0.020 feet/foot exists within the surficial aquifer except near the drainage canal, where groundwater discharges to the canal and an upward gradient of approximately 0.25 feet/foot exists. Hydraulic conductivity in the surficial aquifer ranges from 0.5 to 1.5 feet/day with lower conductivity in the deeper intervals of the surficial aquifer. Groundwater quality at SA 17 is slightly acidic, with pH ranging from 5.4 to 6.3, total alkalinity ranging from 8.6 to 111 milligrams per liter (mg/L), and iron concentration ranging from 0.4 to 74 mg/L.

Plume migration has been impacted by the natural groundwater flow pattern. Groundwater flows horizontally in the source areas in a radial pattern, with the steeper gradient southward toward the drainage canal. There is a strong downward component to groundwater flow in the surficial aquifer. Groundwater contour drawings for the shallow, intermediate, and deep zones of the surficial aquifer as depicted during the Phase I/II site characterization activities are shown on Figures 1-3 through 1-5, respectively.

1.5 Interim Remedial Action Remedy

Subsequent to completion of the Phase I/II site characterization activities, CCI issued a Request for Bid to implement an IRA consisting of ISCO using Fenton's Chemistry for source control/reduction of the chlorinated solvent plume at the SA-17 site. Geo-Cleanse International (GCI) was selected as CCI's subcontractor to implement the IRA.

ISCO injections at SA-17 were completed in two separate distinct phases. Phase I consisted of two injection events conducted from November 2000 through January 2001. Phase II consisted of three injection events conducted from March 2002 through September 2002. A



LEGEND

- 273 Trichloroethylene (µg/l) concentration from Phase II Confirmatory Sampling
- 101 Chlorinated hydrocarbon concentration (µg/l) from Screening Report
- ND Not detected
- (µg/l) Micrograms per liter
- BRAC Base realignment and closure
- DPT Direct-push technology
- msl Mean sea level
- Water table surface
- (SP) Unified Soil Classification System symbol

OLD-17-18A — Monitoring well, Screen, Total depth of boring

17Q022 — DPT well

(SM) Silty SANDS, SAND and silt mixture

(SC/CL) Clayey SANDS, SAND and CLAY mixtures/inorganic CLAYS of low to medium plasticity

0 5 10
Vertical Scale: 1 inch = 10 feet

0 25 50
Horizontal Scale: 1 inch = 50 feet

FIGURE 1-2
Lithologic Cross Section
Studay Area 17, Naval Training Center
Orlando, Florida

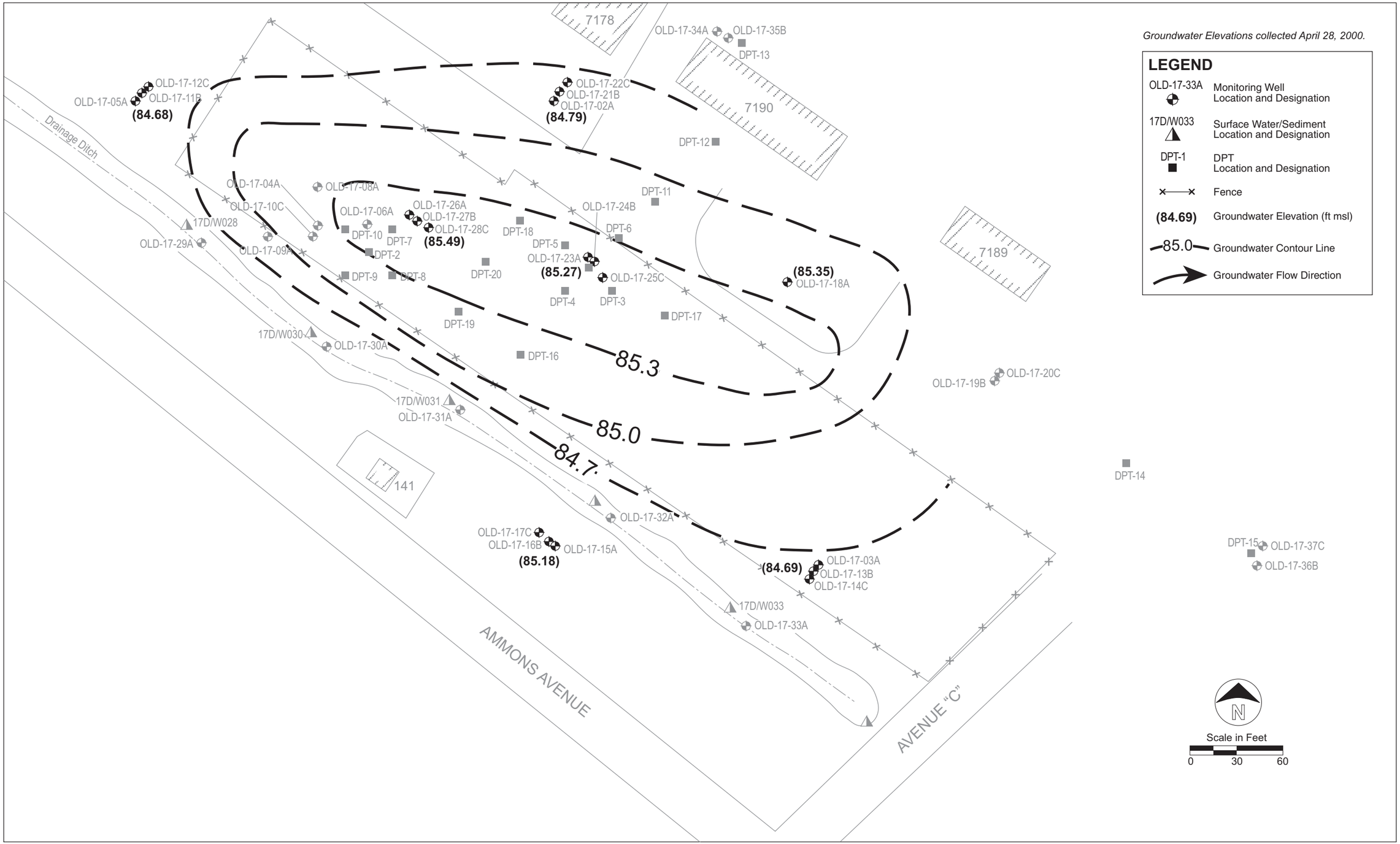


FIGURE 1-3
Shallow Groundwater Contour Map
Study Area 17, Naval Training Center
Orlando, Florida

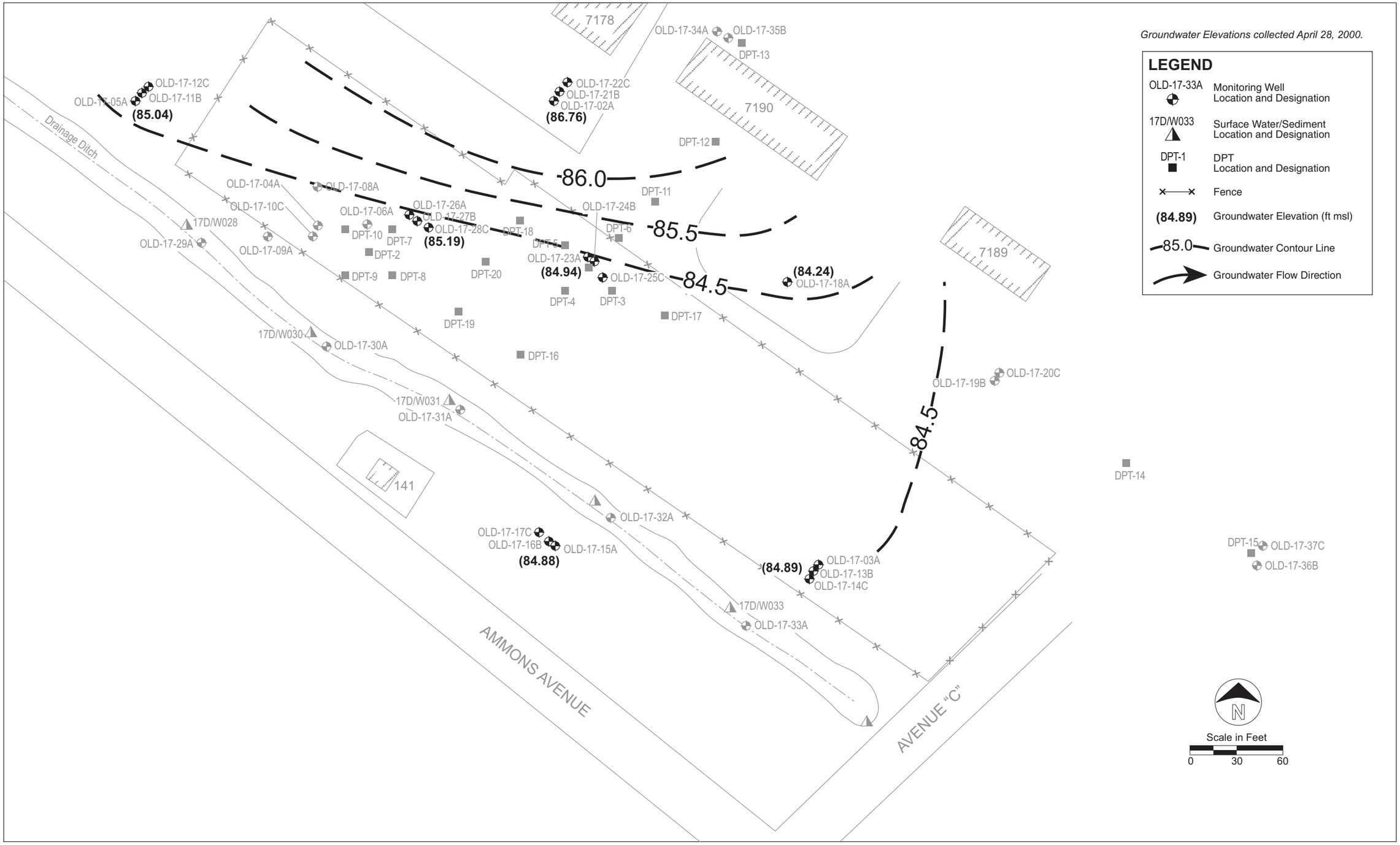


FIGURE 1-4
Intermediate Groundwater Contour Map
Study Area 17, Naval Training Center
Orlando, Florida

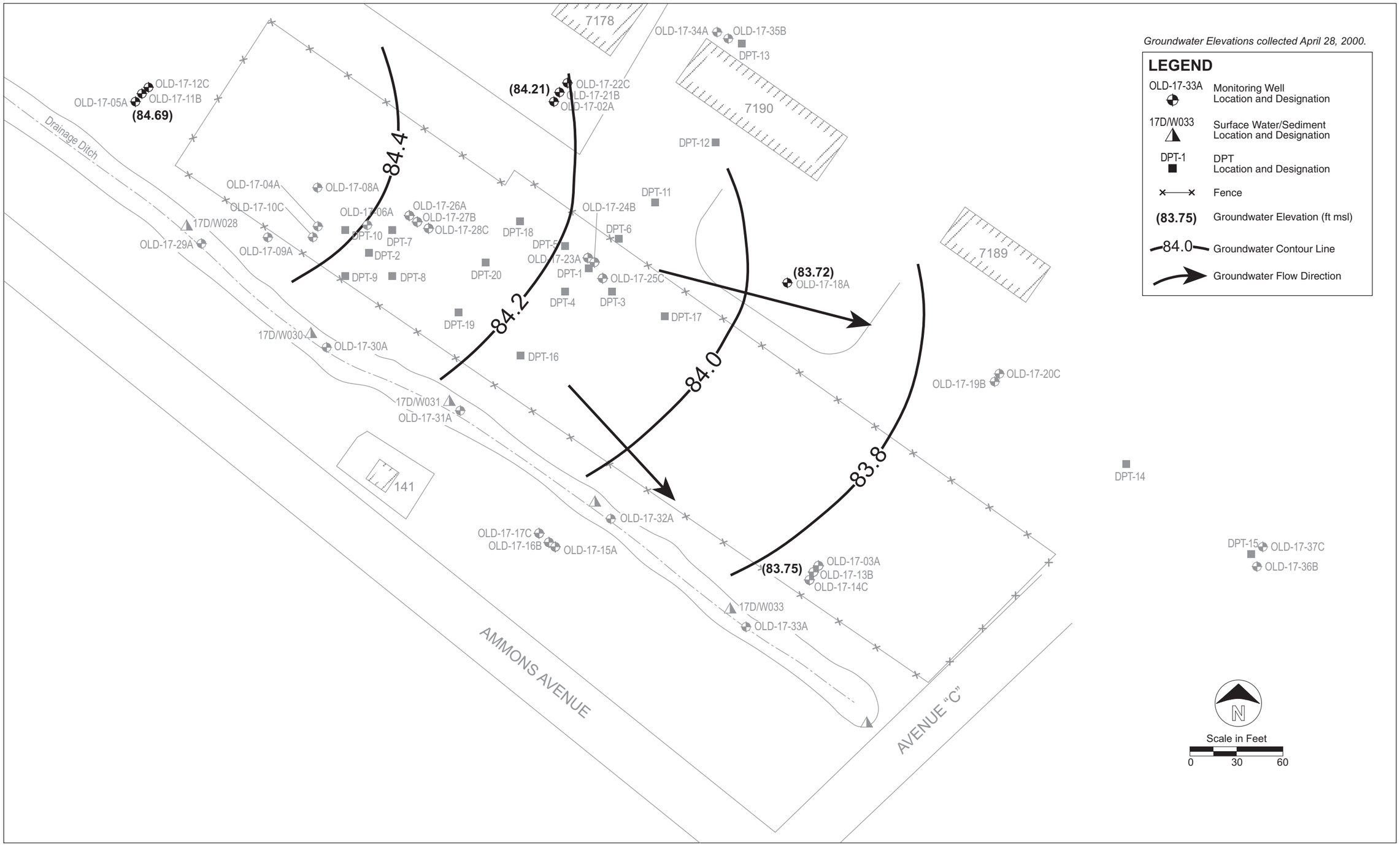


FIGURE 1-5
Deep Groundwater Contour Map
Study Area 17, Naval Training Center
Orlando, Florida

summary of the field activities and findings from each phase is provided in Section 2.0 of this CDR. Planned ISCO field activities for each phase of ISCO implementation including, but not limited to, injection activities, installation of injection points and replacement monitoring wells, and performance monitoring events were documented in two Technical Memorandum Work Plans (CCI, 2000b and CCI, 2001).

1.6 Interim Remedial Action Objectives

Remedial action objectives (RAOs), usually developed during the Feasibility Study, are medium-specific goals that the remedial actions are designed to accomplish to protect human health and the environment by preventing or reducing exposures under current and future land use conditions. RAOs identified for the SA-17 site are: 1) to prevent ingestion of CVOC contaminated groundwater, and 2) to restore the aquifer to beneficial use. IRA objectives are to rapidly reduce source-area CVOC concentrations to mitigate further plume expansion and to promote natural and/or enhanced biodegradation of the residual plume.

Ultimately, chemical-specific remediation goals (RGs) will be developed for the CVOCs in groundwater based on the Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels (GCTLs). However, the remedial goal of the IRA was to reduce the contaminant source area mass and volume to the extent possible. A total CVOC concentration of 500 μg/L was established as the treatment objective. Total CVOC concentration is a summation of TCE, cis-1,2-Dichloroethene (cis-1,2-DCE), 1,1-Dichloroethene (1,1-DCE), 1,1-Dichloroethane (1,1-DCA), and vinyl chloride.

2.0 Summary of In Situ Chemical Oxidation Interim Remedial Action

This section summarizes the ISCO implementation activities at SA-17 and includes a discussion of associated performance monitoring results used to evaluate effectiveness of the technology.

2.1 ISCO Technology and the Geo-Cleanse® Process

The IRA involved the remediation of contaminated groundwater at SA-17 using ISCO. GCI, CCI's contractor, used its Geo-Cleanse® Process. The Geo-Cleanse® Process is a patented technology that simultaneously injects hydrogen peroxide and trace quantities of metallic salts under pressure to the subsurface to destroy organic contaminants in soil and groundwater. The Geo-Cleanse® Process delivers a calculated charge of hydrogen peroxide and catalyst to the contaminated region via specially designed injection equipment consisting of mixing heads and subsurface injectors. The injection methodology and equipment are the keys to the Geo-Cleanse® Process. The chemistry involved is based upon Fenton's reagent. Fenton's reagent oxidizes organic contaminants to carbon dioxide and water, plus chloride (in the case of CVOCs).

In 1894, H.J.H. Fenton reported that malic acid was rapidly oxidized by hydrogen peroxide in the presence of iron salts. Haber and Weiss (1934) identified the oxidation mechanism resulting from mixtures of hydrogen peroxide and ferrous iron (referred to as Fenton's reagent) as a hydroxyl free radical (OH·) formed by the following reaction:

$$H_2O_2 + Fe^{+2} \rightarrow Fe^{+3} + OH\cdot + OH^- \qquad (1)$$

Where H_2O_2 is hydrogen peroxide, Fe^{+2} is ferrous iron, Fe^{+3} is ferric iron, OH· is hydroxyl free radical, and OH^- is hydroxyl ion. Fenton's reagent chemistry is complex, involving a number of additional reactions producing both oxidants and reductants that contribute to contaminant destruction (e.g., Watts et al., 1999):

$$OH\cdot + Fe^{+2} \rightarrow OH^- + Fe^{+3} \qquad (2)$$

$$Fe^{+3} + H_2O_2 \rightarrow H^+ + HO_2\cdot + Fe^{+2} \qquad (3)$$

$$Fe^{+2} + HO_2\cdot \rightarrow Fe^{+3} + HO_2^- \qquad (4)$$

$$Fe^{+3} + HO_2\cdot \rightarrow Fe^{+2} + O_2 + H^+ \qquad (5)$$

$$OH\cdot + H_2O_2 \rightarrow H_2O + HO_2\cdot \qquad (6)$$

Where $HO_2\cdot$ is hydroperoxyl radical, HO_2^- is hydroperoxyl anion, O_2 is molecular oxygen, H^+ is the hydrogen ion, and H_2O is water. Additional reactions occur with organic compounds. The suite of reactions associated with Fenton's reagent is complex, but is very

effective in destroying many organic compounds dissolved in groundwater, sorbed to soil particles, or existing as non-aqueous phase liquids in subsurface environments.

The hydroxyl free radical generated by Fenton's reagent is a powerful, non-selective oxidant. Oxidation of an organic compound by Fenton's reagent is a rapid and exothermic (heat-producing) reaction. Rate constants for reactions of hydroxyl free radical with common environmental pollutants are typically in the range of 10^7 to 10^{10} $M^{-1}s^{-1}$ (e.g., Buxton et al., 1988; Haag and Yao, 1992), and 100-percent mineralization is generally completed in minutes. Intermediate compounds are primarily naturally occurring carboxylic acids. The end products of oxidation are primarily carbon dioxide and water, plus chloride (in the case of chlorinated compounds). None of the injected reagents poses an environmental hazard. Unconsumed hydrogen peroxide naturally degrades to oxygen and water within a few days of injection.

2.2 Phase I ISCO Application Activities

Proposed activities for the ISCO application were documented in the *Work Plan Memorandum: Work Plan for In-Situ Chemical Oxidation IRA at Study Area 17, Naval Training Center, Orlando* (CCI, 2000b). Primary activities performed as part of the initial ISCO application consisted of the following:

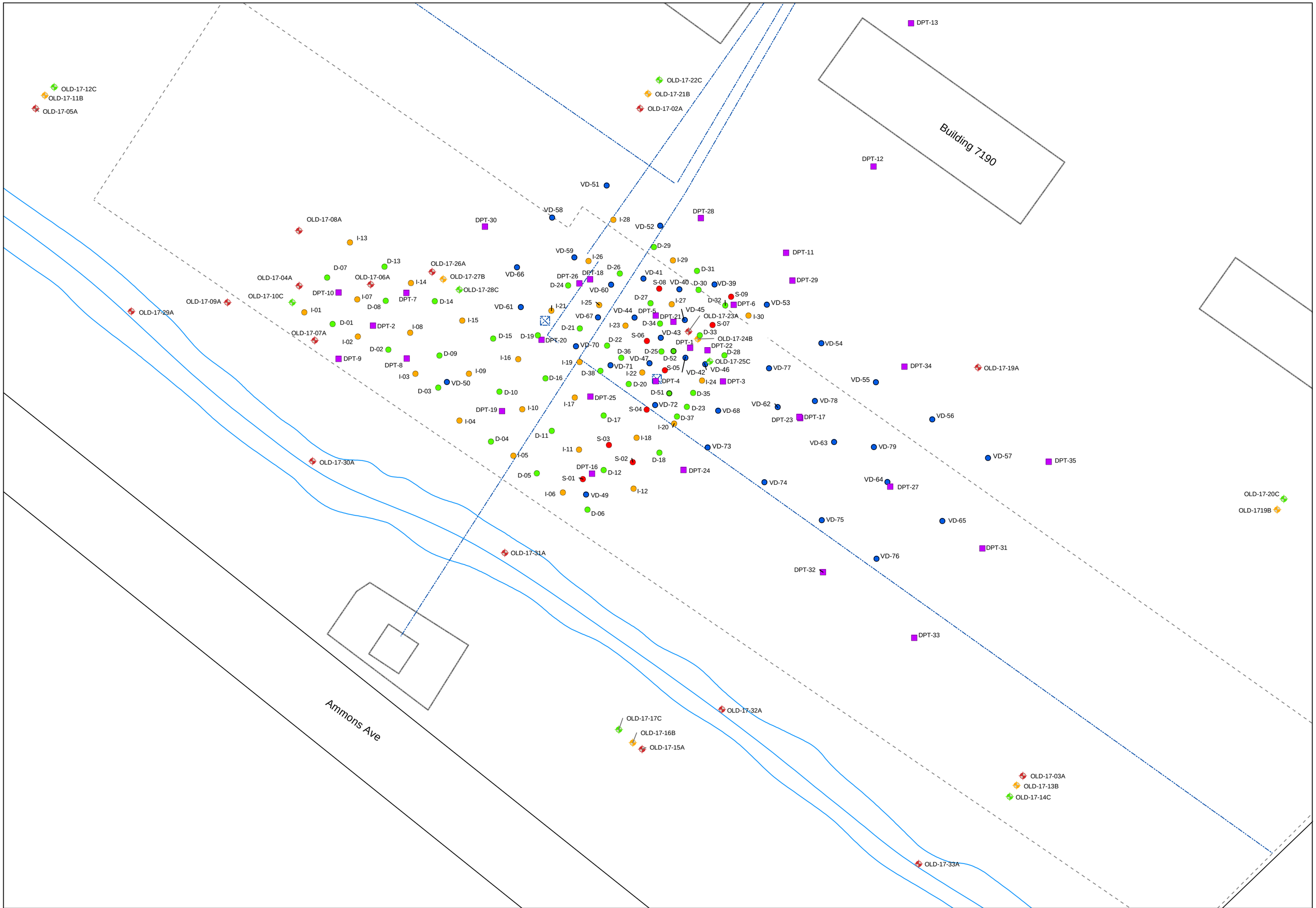
- Injector and monitoring well installation
- Pre-injection baseline monitoring
- ISCO injection
- Performance monitoring

Each of these completed activities, with a conclusion and recommendation as a result of the Phase I application, is described in the following subsections.

2.2.1 Injector and Monitoring Well Installation

The results of the Phase I/II site characterization activities, as documented in the *Technical Memorandum: Phase I and II Data Report for Study Area 17, NTC Orlando* (CCI, 2000a), were used to define the target treatment area used during the Phase I ISCO application event. In general, this target treatment area was roughly an L-shaped area encompassing the primary source area near DPT-1, extending southwest past DPT-16 to the fence line, and northwest to incorporate the portion of the plume extending to DPT-10. The vertical extent of the treatment area extended from the water table to a depth of approximately 26 feet bls. This depth was based upon contaminant distribution and lithologic data that indicates the presence of an apparent aquitard layer at approximately 26 feet bls that limits downward migration of VOCs below that depth. DPT locations DPT-1, DPT-10, and DPT-16 are shown on Figure 2-1.

A total of 69 injectors were installed in three vertical zones. The initial zone consisted of nine injectors installed and screened from 10 to 13 feet bls (shallow injectors S-1 through S-9). The second zone consisted of 30 injectors installed and screened from 16 to 19 feet bls (intermediate injectors I-1 through I-30). The third zone consisted of 30 injectors installed and screened from 22 to 25 feet bls (deep injectors D-1 through D-30). The deep injectors were screened at 25 feet bls, rather than 26 feet below grade, so that the bottom of the screen



- Direct Push Sample Location
- Shallow Monitoring Well
- Intermediate Monitoring Well
- Deep Monitoring Well
- Shallow Injector (10-13 ft bls)
- Intermediate Injector (16-19 ft bls)
- Deep Injector (22-25 ft bls)
- Very Deep Injector (31-34 or 33-36 ft bls)
- Building
- Fence
- Road
- Creek
- WaterLine

bls = below land surface

N W E S

25 12.5 0 25 Feet

Figure 2-1

Injector, Monitoring Well, and DPT Locations

Study Area 17, Naval Training Center

Orlando, Florida

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interval was at the top of the aquitard layer. Details on the construction of these injectors were provided in the *Injection Work Plan*, prepared by GCI and provided as an attachment to the Work Plan Memorandum (CCI, 2000b). Figure 2-1 presents the locations of the DPT points used to evaluate the extent and magnitude of CVOCs in groundwater, site monitoring wells, and injectors installed during the ISCO application activities.

Two monitoring wells were replaced, OLD–17-23A and OLD-17-24B. These wells were located in the most contaminated portion of the plume and target treatment area prior to the initial ISCO application event. The new wells are designated OLD-17-23A-R and OLD-17-24B-R.

2.2.2 Pre-Injection Baseline Monitoring

To evaluate ISCO performance an initial groundwater sample collection event was conducted from October 2 through October 5, 2000 to establish a basis for comparison of data collected during future sampling events. Groundwater samples were collected from three shallow injectors, nine intermediate injectors, eight deep injectors, and the two monitoring wells replaced prior to injection as indicated in the preceding section. The locations of these sample collection points as shown on Figure 2-1 are listed below:

- S-1, S-5, and S-9 (shallow injectors)
- I-1, I-4, I-12, I-15, I-17, I-21, I-24, I-29, and I-30 (intermediate injectors)
- D-3, D-6, D-7, D-19, D-20, D-26, D-28, and D-30 (deep injectors)
- OLD-17-23A-R and OLD-17-24B-R (monitoring wells within target treatment area)

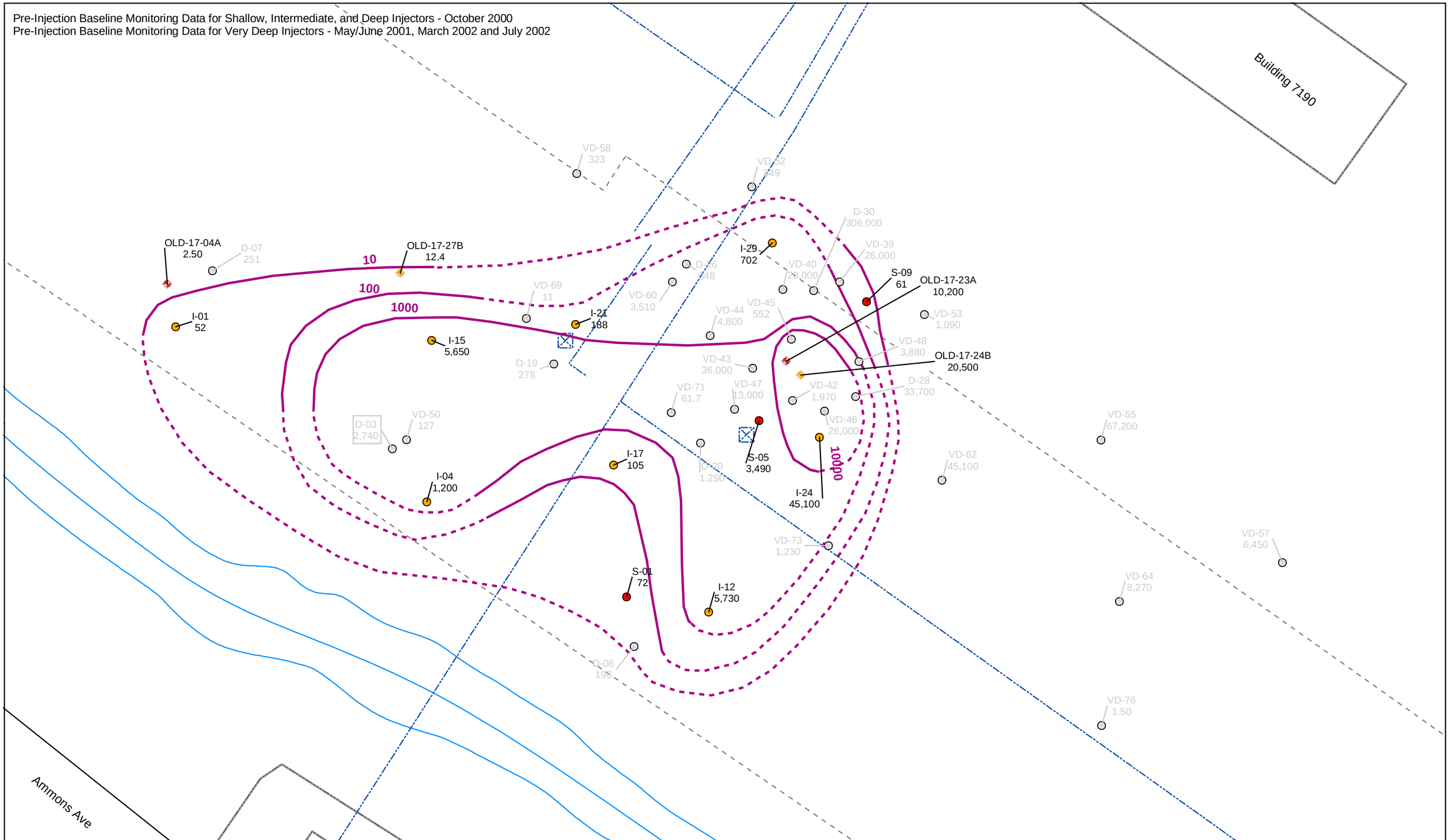
Groundwater samples were analyzed for VOCs by Method 8260B, gasoline-range organics (GRO), diesel-range organics (DRO), and chloride by Method 315.5. Groundwater sampling conducted during the IRA was completed in accordance with the Orlando POP and CH2M HILL's approved FDEP Comprehensive Quality Assurance Plan (CompQAP). The data summary table provided in Appendix A presents the contaminants detected during the pre-injection baseline monitoring event.

Figures 2-2 and 2-3 present TCE in the shallow/intermediate zone and deep zone, respectively based on the October 2000 sampling event. Figures 2-4 and 2-5 present total CVOCs in the shallow/intermediate and deep zone, respectively. Figures 2-6 and 2-7 present chloride in the shallow/intermediate and deep zone, respectively. Figures 2-8 and 2-9 present a 3-dimensionsional (3-D) view of TCE and total CVOCs created using the environmental visualization system (EVS). These figures present the condition of the aquifer prior to ISCO treatment and will be used to compare to existing conditions based on the most recent sampling events.

2.2.3 ISCO Injection – Phase I-A

The initial phase of injection operations was conducted from November 7 through November 30, 2000. A mobile treatment unit was staged at the site, with tanks, pumps, gauges, and flow control valves to prepare and deliver the reagents. A manufacturer-supplied H_2O_2 tanker truck and portable generator were also staged at the site. Specially designed mixing heads were attached to the injector riser pipes. The injection process was dynamic and several variables (including injection rate, pressure, and use of air to enhance reagent dispersion) were modified to evaluate optimal injection conditions. Injection rates

Pre-Injection Baseline Monitoring Data for Shallow, Intermediate, and Deep Injectors - October 2000
Pre-Injection Baseline Monitoring Data for Very Deep Injectors - May/June 2001, March 2002 and July 2002



- Shallow Well
- Intermediate Well
- Shallow Injector (10-13 ft bls)
- Intermediate Injector (16-19 ft bls)
- Deep Injector (22-25 ft bls)
- Very Deep Injector (31-34 or 33-36 ft bls)

bls = below land surface

- Known Isoconcentration Contour
- Inferred Isoconcentration Contour
- Building
- Fence
- Road
- Creek
- WaterLine

25 12.5 0 25 Feet

Figure 2-2
TCE Isoconcentration in Shallow/Intermediate Zone
Study Area 17, Naval Training Center
Orlando, Florida

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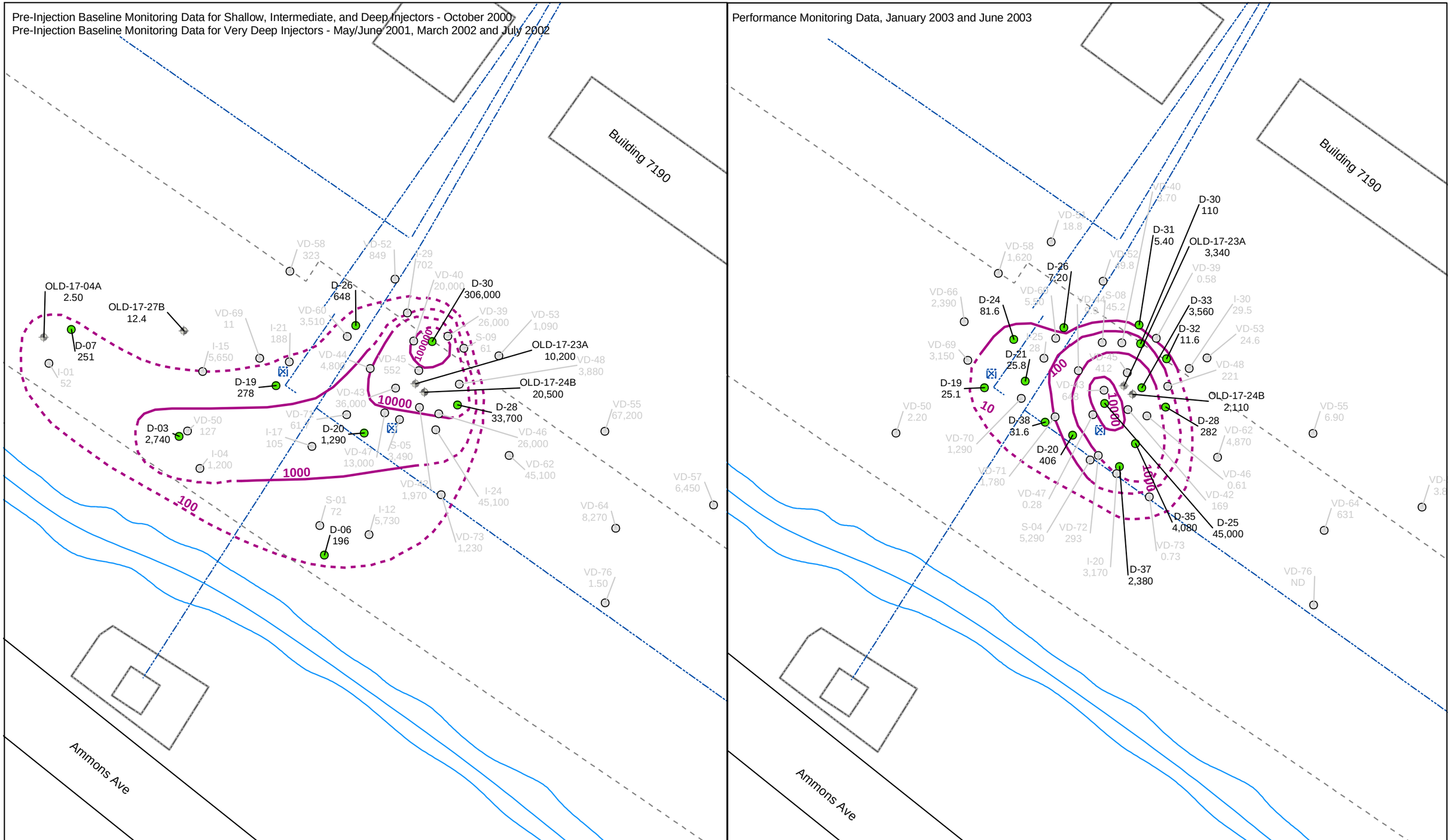


Shallow Well
Intermediate Well
Shallow Injector (10-13 ft bls)
Intermediate Injector (16-19 ft bls)
Deep Injector (22-25 ft bls)
Very Deep Injector (31-34 or 33-36 ft bls)
bls = below land surface

Known Isoconcentration Contour
Inferred Isoconcentration Contour
Building
Fence
Road
Creek
WaterLine

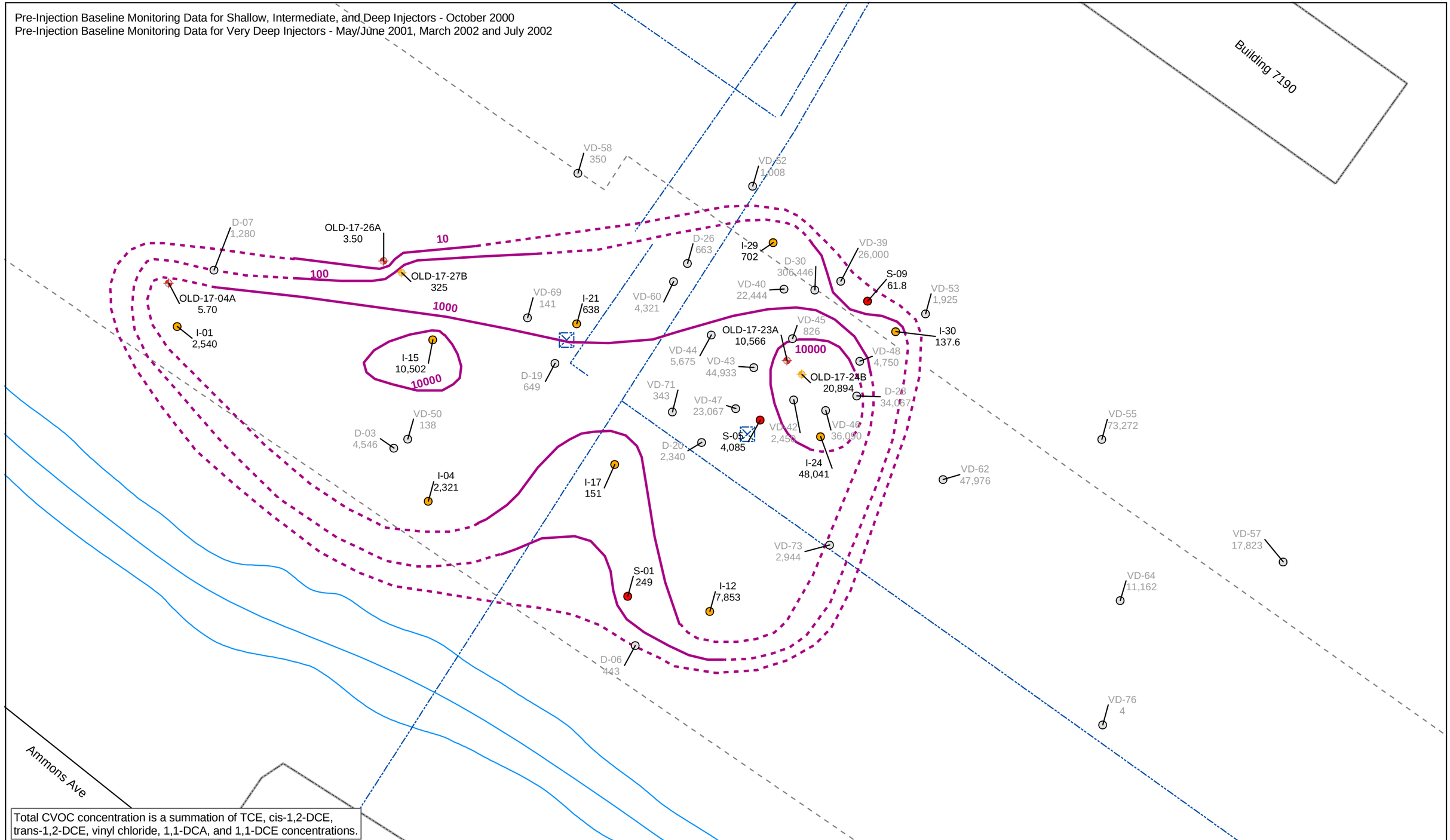
40 20 0 40 Feet

Figure 2-3
TCE Isoconcentration in Deep Zone
Study Area 17, Naval Training Center
Orlando, Florida

CH2MHILL

File Path: \\boomer\g\projects2\NTC-Orlando\MXD\figure2-3_deeptce.mxd, Date: 07 10, 2003, User: NMOUDRY

Pre-Injection Baseline Monitoring Data for Shallow, Intermediate, and Deep Injectors - October 2000
Pre-Injection Baseline Monitoring Data for Very Deep Injectors - May/June 2001, March 2002 and July 2002



Total CVOC concentration is a summation of TCE, cis-1,2-DCE, trans-1,2-DCE, vinyl chloride, 1,1-DCA, and 1,1-DCE concentrations.

- Shallow Well
- Intermediate Well
- Shallow Injector (10-13 ft bls)
- Intermediate Injector (16-19 ft bls)
- Deep Injector (22-25 ft bls)
- Very Deep Injector (31-34 or 33-36 ft bls)

bls = below land surface

- Known Isoconcentration Contour
- Inferred Isoconcentration Contour
- Building
- Fence
- Road
- Creek
- WaterLine

25 12.5 0 25 Feet

N W E S

Figure 2-4

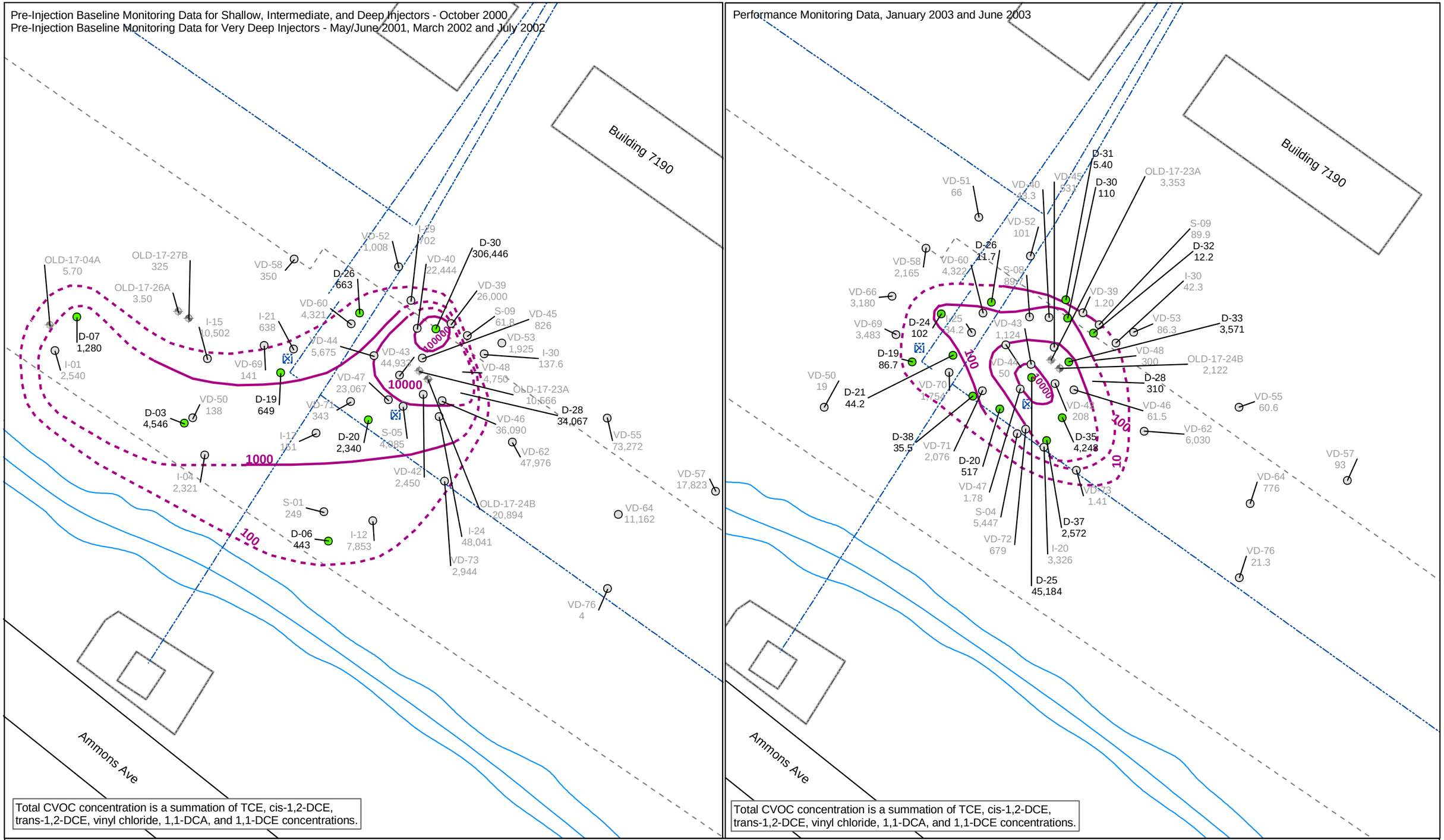
Total CVOC Isoconcentration in Shallow/Intermediate Zone

Study Area 17, Naval Training Center

Orlando, Florida

CH2MHILL

File Path: \\boomer\g\projects2\NTC-Orlando\MXD\figure2-4_shallowtcvoc.mxd, Date: 07 03, 2003, User: NMOUDRY



Shallow Well
Intermediate Well
Shallow Injector (10-13 ft bls)
Intermediate Injector (16-19 ft bls)
Deep Injector (22-25 ft bls)
Very Deep Injector (31-34 or 33-36 ft bls)
bls = below land surface

Known Isoconcentration Contour
Inferred Isoconcentration Contour
Building
Fence
Road
Creek
WaterLine

40 20 0 40 Feet

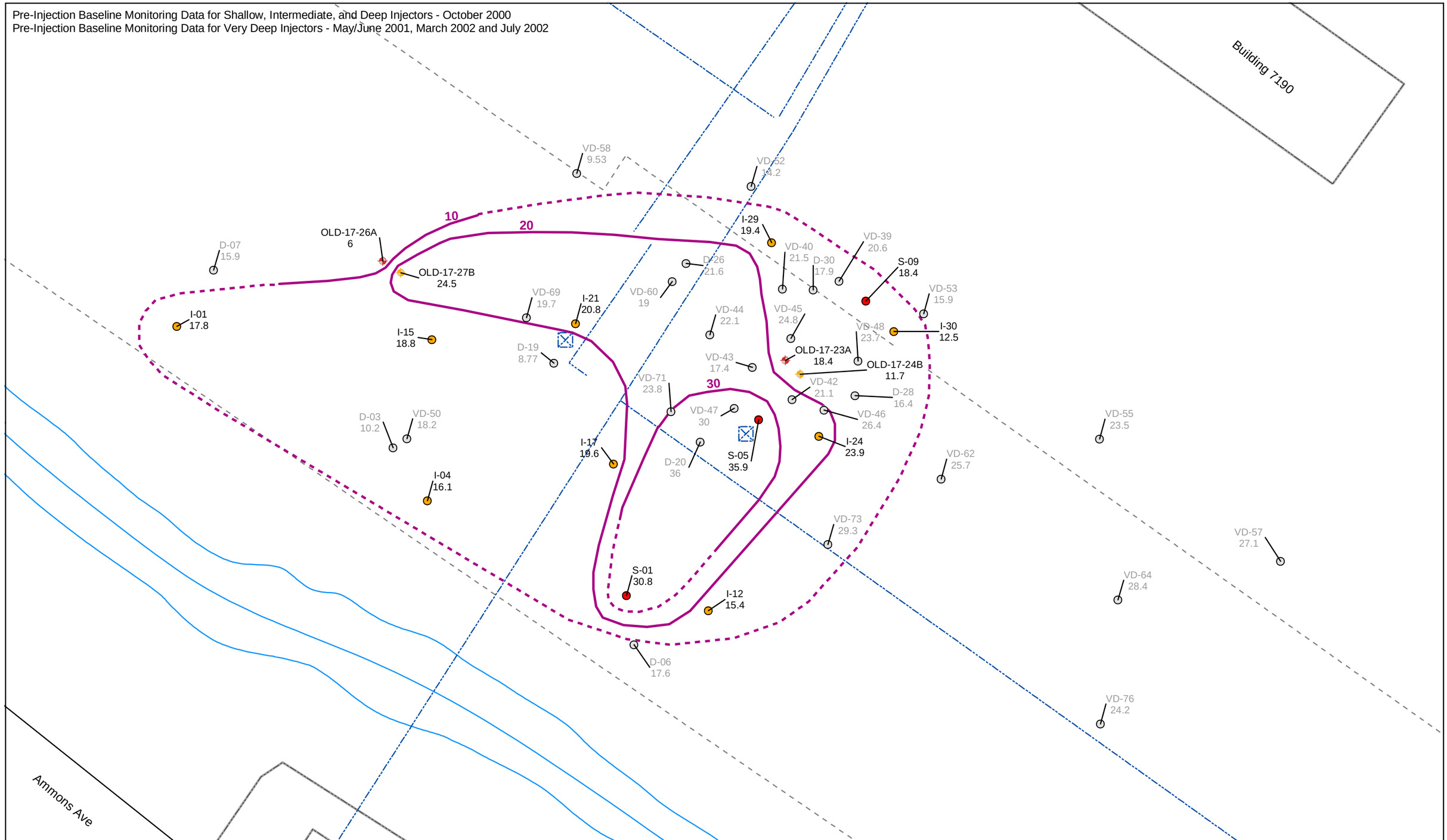
N W E S

Figure 2-5
Total CVOC Isoconcentration in Deep Zone
Study Area 17, Naval Training Center
Orlando, Florida

CH2MHILL

File Path: \\boomer\g\projects2\NTC-Orlando\MXD\figure2-5_deeptcvoc.mxd, Date: 07 04, 2003, User: NMOUDRY

Pre-Injection Baseline Monitoring Data for Shallow, Intermediate, and Deep Injectors - October 2000
Pre-Injection Baseline Monitoring Data for Very Deep Injectors - May/June 2001, March 2002 and July 2002



Shallow Well
Intermediate Well
Shallow Injector (10-13 ft bls)
Intermediate Injector (16-19 ft bls)
Deep Injector (22-25 ft bls)
Very Deep Injector (31-34 ro 33-36 ft bls)
bls = below land surface

Known Isoconcentration Contour
Inferred Isoconcentration Contour
Building
Fence
Road
Creek
WaterLine

25 12.5 0 25 Feet

Figure 2-6
Chloride in Shallow/Intermediate Zone
Study Area 17, Naval Training Center
Orlando, Florida

CH2MHILL

File Path: \\boomer\g\projects2\NTC-Orlando\MXD\figure2-6_shallowchloride.mxd, Date: 07 03, 2003, User: NMOUDRY

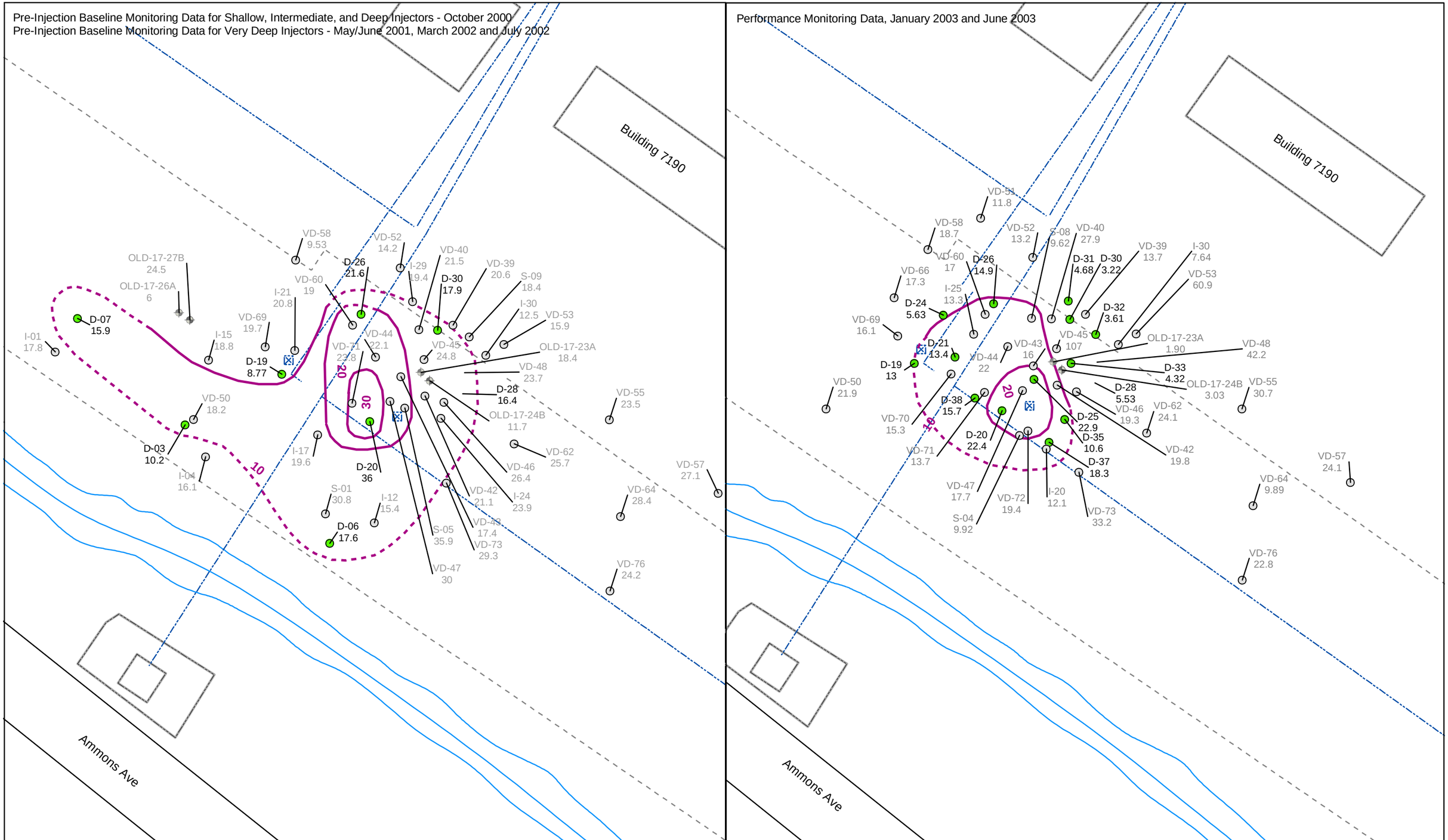
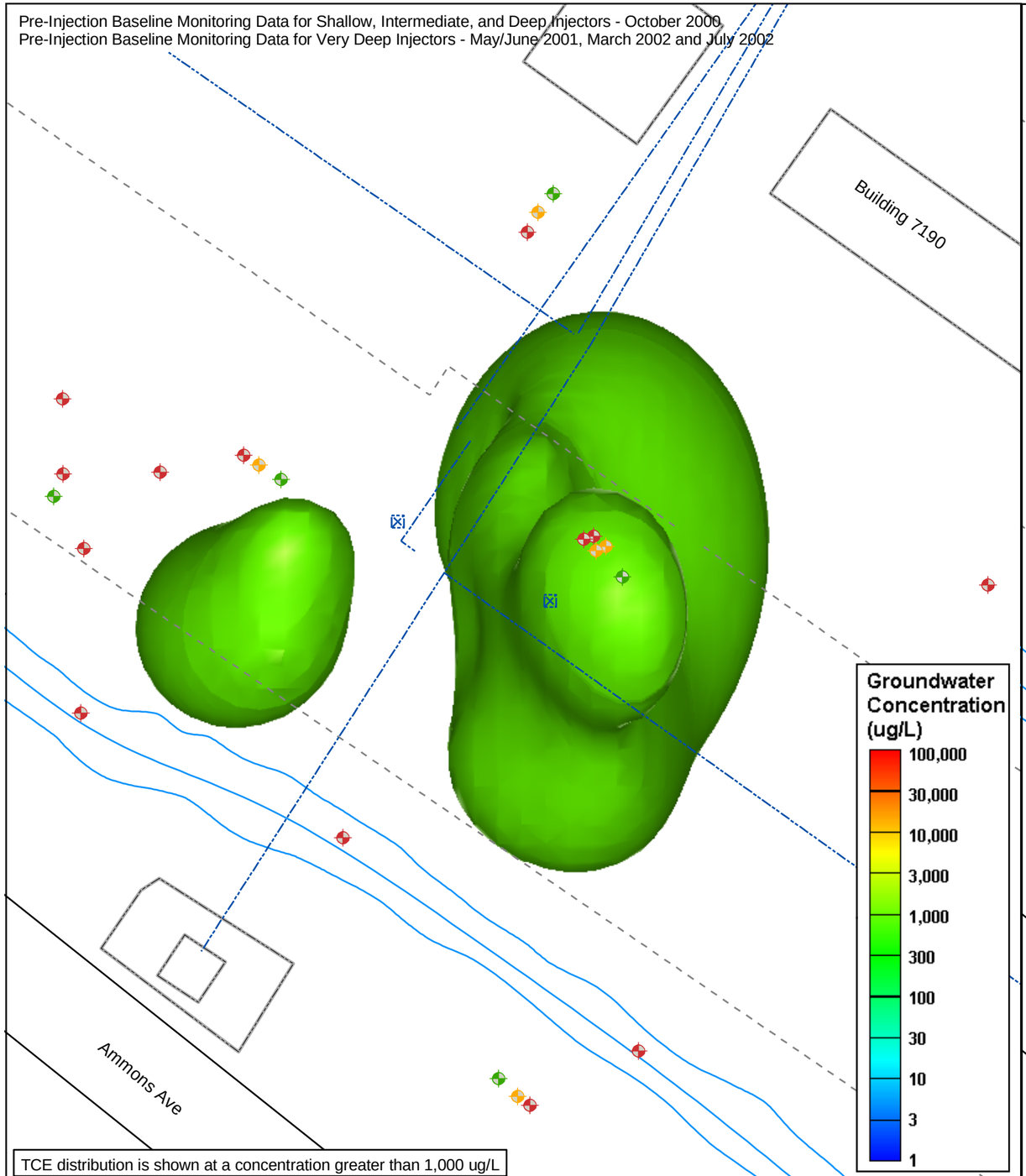
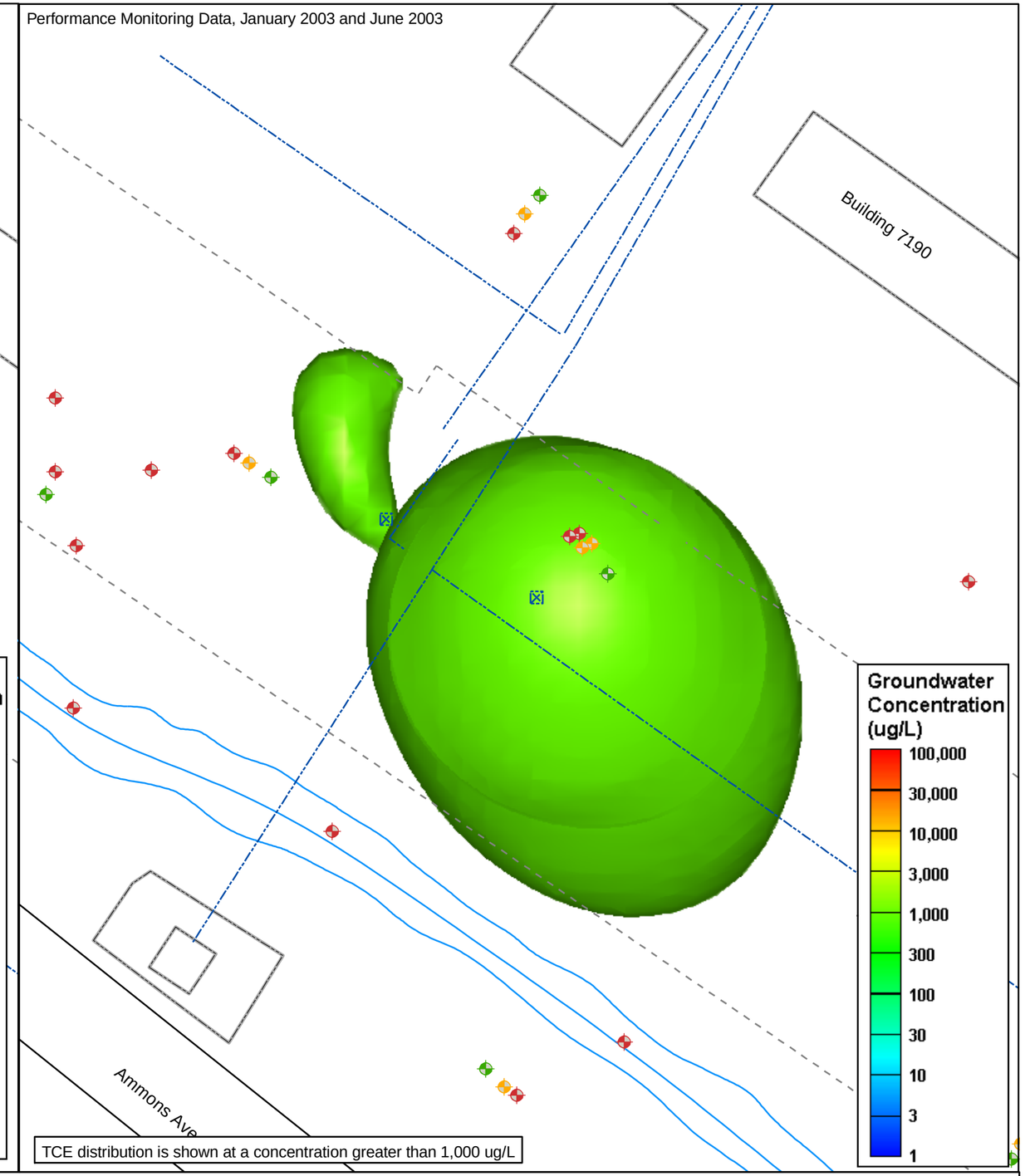


Figure 2-7
Chloride Isoconcentration in Deep Zone
Study Area 17, Naval Training Center
Orlando, Florida

CH2MHILL

File Path: \\boomer\g\projects2\NTC-Orlando\MXD\figure2-7_deepchloride.mxd, Date: 07 04, 2003, User: NMOUDRY





Shallow Monitoring Well
Intermediate Monitoring Well
Deep Monitoring Well

Fence
Road
Creek
WaterLine
Building

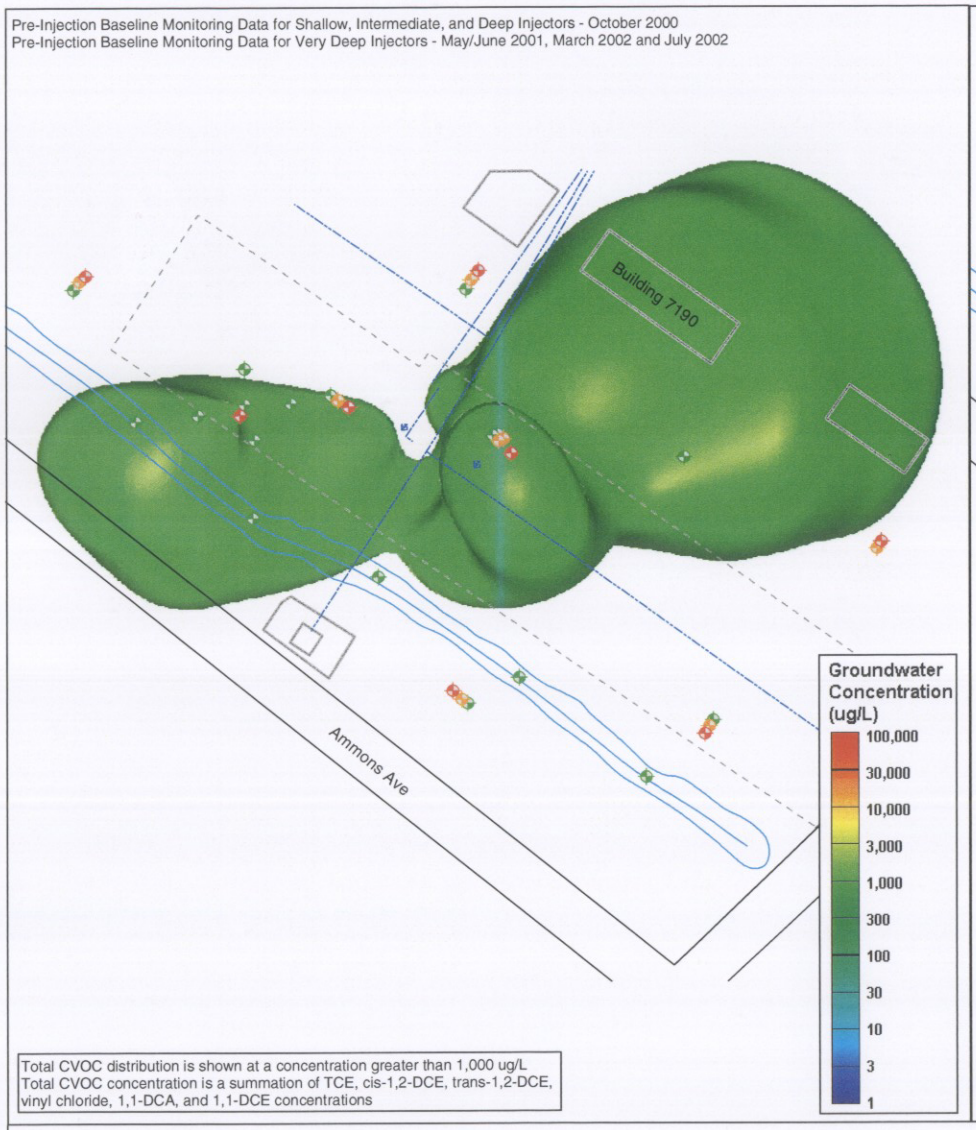
40 20 0 40 Feet

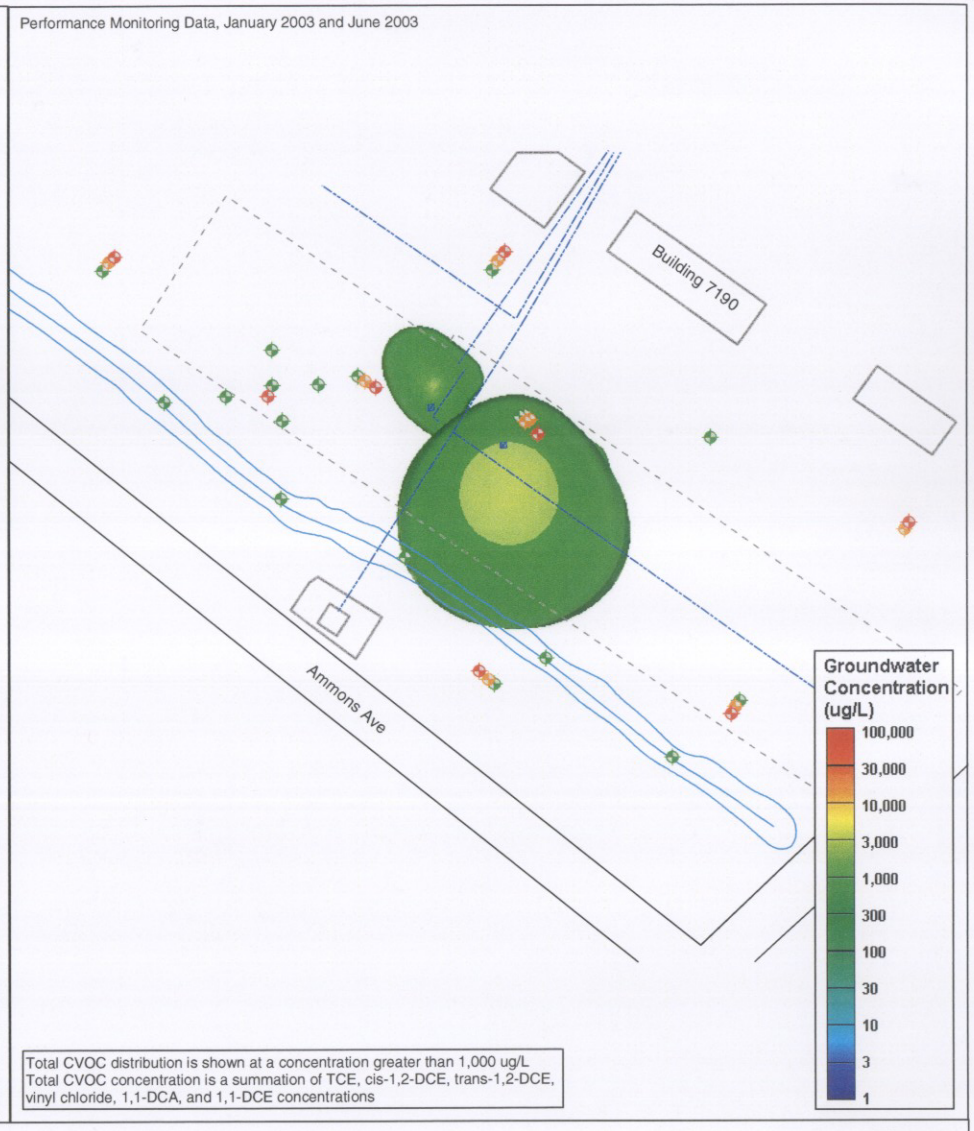
N W E S

Figure 2-8
TCE Distribution - 3-D Plan View
Study Area 17, Naval Training Center
Orlando, Florida

CH2MHILL

File Path: \\boomer\g\projects2\NTC-Orlando\MXD\figure2-8_tce3D.mxd, Date: 07 03, 2003, User: NMOUDRY





Shallow Monitoring Well
Intermediate Monitoring Well
Deep Monitoring Well
Fence
Road
Creek
WaterLine
Building

100 50 0 100 Feet

N W E S

Figure 2-9
Total CVOC Distribution - 3-D Plan View
Study Area 17, Naval Training Center
Orlando, Florida

CH2MHILL

File Path: \\boomer\g\projects2\NTC-Orlando\MXD\figure2-9_tcvoc3D.mxd, Date: 07 03, 2003, User: NMOUDRY

ranged from <0.25 gallons per minute (gpm) to 1 gpm, injection pressure (at which liquid reagents are delivered) ranged from 5 pounds per square inch (psi) to 40 psi.

A total of 4,350 gallons of 50 percent H_2O_2 solution (with maximum injection concentrations of 25 percent H_2O_2) were injected during the initial 17-day effort.

Groundwater pH typically ranged from 4 to 5 with iron concentrations typically >10 mg/L, indicating conducive geochemical conditions were established in the aquifer. Hydrogen peroxide was detected up to 35 feet from active injection points and groundwater mounding and bubbling similarly were observed 15 to 25 feet away from injectors, indicating effective reagent dispersal. The initial injection phase was completed after groundwater headspace PID readings (used as a semi-quantitative measure of dissolved CVOC concentrations and treatment progress) were reduced to <1 parts per million (ppm) from pre-injection baseline readings of up to 465 ppm.

2.2.4 Performance Monitoring

During the initial November 2000 ISCO injection event, a single groundwater sample was collected from monitoring well OLD-17-04A and analyzed for VOCs by Method 8260B and chloride by Method 315.5. Detected concentrations of cis-1,2-DCE, vinyl chloride, and TCE were less than 2.5 μg/L, which is two orders of magnitude less than the previous analytical results from the most recent sample collected on June 19, 1998. The positive results from this single sampling location during the initial injection showed the potential impact and success that could be achieved from the ISCO technology.

A post-injection sample collection event was completed 13 days after the initial injection was concluded. The 13-day waiting period allowed residual H_2O_2 to react and the aquifer to return to ambient conditions. This data was used to identify areas requiring additional injection as part of the primary injection phase. Groundwater samples were collected from the 22 injectors and monitoring wells sampled during the pre-injection baseline event and analyzed for VOCs, gasoline-range organics (GRO), and chloride. The results are tabulated in a data summary table provided in Appendix A.

The average reductions in CVOCs and GRO were 92 percent and 90 percent, respectively. The most contaminated well at the site (injector D-30) experienced a reduction in total CVOCs from 306,000 μg/L to 27,000 μg/L (91 percent), and a reduction in GRO from 78,500 μg/L to 9,190 μg/L (88 percent). The two monitoring wells in the central portion of the source area (i.e., OLD-17-23A-R and OLD-17-24B-R) experienced CVOC reductions from 10,600 μg/L to 0.7 μg/L (>99 percent) and from 20,900 μg/L to 1,620 μg/L (92 percent). Based on December 2000 analytical data, total CVOC concentrations in shallow and intermediate injectors and monitoring wells were reduced to below the target concentration of 500 μg/L, although the deep injectors and monitoring well required additional injection.

Chloride concentrations detected in samples collected during the December 2000 sampling event ranged as high as 50 mg/L. Comparison of the laboratory analytical chloride results indicate a site-wide average increase from 19.3 to 22.0 mg/L. This slight increase in chloride ions is an indication of oxidation since chloride is an end product in the case of chlorinated compounds.

Based upon the initial results, GCI recommended an additional H_2O_2 injection as part of the Phase I ISCO application focusing on the deep zone. An additional eight injectors, identified as D-31 through D-38, were designed with a 3-foot screen interval and terminated at an approximate depth of 25 feet bls. These injectors were installed on January 10, 2001, to provide additional coverage in the deep zone of the aquifer. Eight of the injectors were positioned in the area surrounding monitoring well OLD-17-24B. The locations of these additional deep injectors are shown on Figure 2-1.

2.2.5 ISCO Injection – Phase I-B

A total of 1,957 gallons of 50 percent H_2O_2 solution were injected in the 10 newly installed deep injectors during the initial 4-day effort completed from January 15 through January 18, 2001.

Additional performance monitoring events following the January 2001 injection event were conducted from January 29 through February 1, 2001, and from February 19 through February 24, 2001. Groundwater samples were collected from the 22 injectors and monitoring wells sampled during the pre-injection baseline event and analyzed for VOCs, GRO, and chloride. The results are tabulated in the data summary table provided in Appendix A.

2.2.6 Phase I ISCO Application Summary and Conclusions

Analytical results from the shallow injectors and monitoring well OLD-17-23A indicated the Phase I ISCO application was successful in source reduction. Based on the February 2001 sampling event, the total CVOC concentration in each of the three shallow injectors was below the IRA cleanup objective of 500 µg/L. In addition, TCE concentrations decreased an order of magnitude in two of the three shallow injectors (i.e., S-1 and S-5) when compared to their baseline concentration from the October 2000 sampling event.

Based on the February 2001 analytical results, three intermediate injectors exceeded the IRA cleanup objective of 500 µg/L. Two of the intermediate injectors (I-12 and I-15) are outside of the source area, and rebounded slightly above the 500 µg/L cleanup concentration but remained at approximately 10 percent of their baseline concentration (October 2000), indicating sustained positive results. The intermediate injector I-24 (the third intermediate above the cleanup objective) is within the concentrated source area of the site. Overall, the chloride concentrations have continued to increase in the intermediate zone, from a baseline (October 2000) average of 18.3 mg/L, to 21.1 mg/L (December 2000), to 22.0 mg/L based on the February 2001 results. Seven of the nine intermediate injectors yielded increased chloride concentration indicating oxidation.

The deep zone results showed overall reductions in CVOCs and increases in chloride based on the February 2001 analytical results. Four deep injectors (plus monitoring well OLD-17-24B-R, which is screened within our deep injection zone) exceeded the cleanup objective. Two of the deep injectors (D-3 and D-6) are outside of the concentrated source area and have been problematic during the Phase I application due to short-circuiting. GCI recommended re-installing new injectors adjacent to these locations. Nonetheless, these injectors also yielded progressively lower VOC concentrations when compared to the baseline analytical results. Within the source area, CVOC concentrations in samples

collected from deep injectors D-28 and D-30 [particularly D-30 (TCE: 78,000 μg/L)] remained elevated. Deep injector D-28 rebounded but exhibited a 96 percent reduction when compared to the results from the baseline event. CVOCs in deep injector D-30 progressively decreased, and exhibited an approximate 92 percent reduction in the sample collected from the February 2001 event when compared to the October 2000 baseline event. More importantly, chloride concentrations increased dramatically in the deep zone. Chloride in D-30 increased to 110 mg/L from a baseline of 17.9 mg/L (October 2000). Overall, average chloride concentrations in the deep injectors increased from 18.0 mg/L (October 2000) to 22.9 mg/L (December 2000), followed by 33.6 mg/L (February 2001).

Based on the results from the performance monitoring events, the ISCO technology application showed success from the Phase I. The treatment objectives were achieved and maintained in the shallow zone, including monitoring well OLD-17-23A. Additional polishing was recommended in the area of two intermediate and two deep injectors outside the target treatment area (i.e., concentrated source area). Two new two deep injectors were recommended to be installed adjacent to existing deep injectors D-3 and D-6. These new "very deep" injectors identified as VD-49 and VD-50 were installed with a screen interval of 31 to 34 feet bls.

Based on the performance monitoring results it was believed a residual dense non-aqueous phase liquid (DNAPL) source existed below the deep injectors within the concentrated source area near existing monitoring well OLD-17-24B-R. As a result, 10 new "very deep" injectors identified as VD-39 through VD-48 and screened at an interval of 31 to 34 feet bls were installed to target the very deep zone. The locations of these injectors are shown on Figure 2-1.

2.3 Phase II ISCO Application Activities

Primary activities performed to further characterize the very deep zone and as part of the ISCO Phase II application consisted of the following:

- Preliminary very deep injector monitoring event
- Characterization of the very deep zone
- Installation of additional very deep injectors
- Phase II ISCO injection and monitoring
- Performance monitoring

Proposed activities for the Phase II ISCO application initiating with installation of the additional very deep injectors were documented in the *Technical Memorandum: Work Plan for IRA Activities at Study Area 17, Naval Training Center, Orlando* (CCI, 2001). Each of these completed activities is discussed in the following subsections.

2.3.1 Preliminary Very Deep Injector Monitoring Event

Groundwater samples were collected from seven of the 10 newly installed injectors in the very deep zone. Samples were collected on May 8, 2001, from injectors VD-39, VD-40, VD-43, VD-44, VD-46, and VD-47 and from injector VD-48 on June 12, 2001. Each sample was analyzed for VOCs. Of the seven injectors sampled, VD-43 showed a detected CVOC concentration greater than 40,000 μg/L; VD-39, VD-40, VD-46, and VD-47 exhibited CVOC

concentrations between 20,000 and 40,000 μg/L, and VD-44 and VD-48 detected CVOCs at a total concentration of 5,700 μg/L and 4,750 μg/L, respectively. These results are provided in the data summary table provided in Appendix B. As a result of this initial sampling event, the very deep zone was further investigated to characterize the extent of elevated CVOC contamination.

2.3.2 Very Deep Zone Characterization

A total of 15 DPT borings, identified as DPT-21 through DPT-35, were advanced from June 11 through June 19, 2001, to characterize the extent of CVOCs in the very deep zone greater than 30 feet bls. These DPT locations are shown on Figure 2-1. The area of investigation consisted of a large grid pattern centered around existing monitoring wells OLD-17-23A, OLD-17-24B, and OLD-17-25C. Except for DPT borings DPT-21 through DPT-23, three samples were collected from each DPT boring at intervals of 32 to 34 feet bls, 34 to 36 feet bls, and 38 to 40 feet bls. A fourth sample collected from an interval of 44-46 feet bls was collected from DPT-23. DPT Samples were collected from DPT borings DPT-21 and DPT-22 at intervals of 38 to 40 feet bls, 44 to 46 feet bls, and 50 to 52 feet bls. Each of the collected samples was analyzed for VOCs. Analytical results are tabulated in a data summary table in Appendix B.

The groundwater sampling results confirmed the presence of CVOCs in groundwater at depths greater than 26 feet bls. Compounds detected in groundwater were primarily TCE and its natural degradation products cis-1,2-DCE and vinyl chloride. Other CVOCs detected were 1,1-DCA, 1,1-DCE, and trans-1,2-dichloroethene (trans-1,2-DCE). The distribution of chlorinated solvents showed two distinct areas of elevated CVOCs, one centered near injector locations VD-43 and VD-46 (maximum CVOC concentration of 44,931 μg/L), and a second centered near DPT-23 and DPT-27 (maximum CVOC concentration of 20,020 μg/L). The extent of the CVOC plume was not well defined in the east-northeast direction with samples collected from DPT-34 and DPT-35 yielding total CVOC concentrations of 4,995 μg/L and 3,098 μg/L, respectively. Distribution of total CVOCs defines an area of elevated concentration in the immediate area of injectors VD-43 and VD-46, which migrated in an easterly direction.

Based on the investigation, the vertical distribution of CVOCs was primarily restricted to a relatively narrow interval from approximately 31 to 36 feet bls. CVOCs were detected in samples collected from six DPT borings at depths greater than 38 feet bls, but the zone of maximum CVOC concentration was in the 32- to 36-foot depth interval.

TCE, the primary compound detected and used to define the contaminant source area, was well defined to concentrations less than 5 μg/L as a result of the very deep zone characterization. Reduced TCE concentrations coupled with increased cis-1,2-DCE and vinyl chloride concentrations in samples collected from DPT borings downgradient from the apparent TCE source area indicated natural degradation of the chlorinated solvent plume via reductive dechlorination.

2.3.3 Very Deep Injector Installation

The results of the June 2001 characterization of CVOCs in the very deep zone were used to define the location of additional injectors in an interval approximately 33 to 36 feet bls. The

area in which TCE exceeded 2,000 μg/L was approximately 100 feet by 260 feet in area, extending to an approximate depth of 36 feet bls. The increased treatment zone, relative to the previous delineation and Phase I ISCO application, is the depth interval from approximately 25 to 36 feet bls.

An additional 26 very deep injectors were designed with a screen length from 33 to 36 feet bls, which is slightly deeper than the 10 previous VD injectors. The installation of these very deep injectors, identified as VD-51 through VD-76, were advanced in areas of elevated TCE concentration with an average spacing of approximately 30 feet on center. Figure 2-1 depicts the locations of these very deep injectors.

2.3.4 Phase II Pre-Injection and Monitoring

Phase II ISCO application occurred during three separate injection events in 2002. These injection events were completed from March 6 through March 27, August 19 through August 23, and September 3 through September 6. A total of 13,923 gallons of 50 percent H_2O_2 solution (with maximum injection concentrations of 25 percent H_2O_2) was injected during 28 days.

Two limited sample collection events were completed in March and April 2002 immediately following the March injection event. During the March and April 2002 events, samples were collected from 12 very deep injectors. In addition during the April 2002 event, samples were collected from two shallow injectors, two intermediate injectors, two deep injectors, and from monitoring wells OLD-17-23A, OLD-17-24B, and OLD-17-25C. The samples collected during the two events were analyzed for VOCs. TCE concentrations in 11 of the 12 very deep injectors decreased from one to four orders of magnitude when comparing the results from the March and April sampling events. Results from the twelfth injector remained unchanged at a concentration less than 1 μg/L.

Based on the analytical results from the March and April 2002 sampling event five additional injectors were installed prior to the August and September Phase II injection events. Two deep and three very deep injectors, identified as D-51, D-52, VD-77, VD-78, and VD-79, were installed to provide improved reagent distribution in areas of elevated contaminant concentration.

During the injection activities, daily groundwater quality samples were collected and analyzed for pH, iron, hydrogen peroxide, chloride, and alkalinity. In addition, headspace in injectors was measured for volatile organics using a photoionization detector (PID).

2.3.5 Performance Monitoring

Monitoring events initiating in July 2002 were completed to evaluate the performance of the Phase II ISCO application. Subsequent performance monitoring events were completed in October 2002, January 2003, and June 2003. Each sample collected during the four performance monitoring events was analyzed for VOCs and chloride. Groundwater samples were collected from 19 very deep injectors, two monitoring wells, eight deep injectors, and one shallow injector during each monitoring event. These sample collection locations are provided below:

- VD-39, VD-40, VD-42 through VD-48, VD-50, VD-55, VD-57, VD-58, VD-60, VD-62, VD-64, VD-69, VD-71, and VD-73
- OLD-17-23A and OLD-17-24B
- D-20, D-25, D-28, D-30, D-31, D-33, D-35, D-37
- S-04

In addition, samples were collected from injector locations VD-51, VD-66, VD-70, VD-72, D-24, D-32, D-38, I-20 during the June 2003 performance monitoring event.

Samples were collected from injector locations VD-52, VD-53, VD-76, D-19, D-21, D-26, I-25, I-30, S-08 and monitoring well OLD-17-25C during the July 2002, October 2002, and January 2003 events.

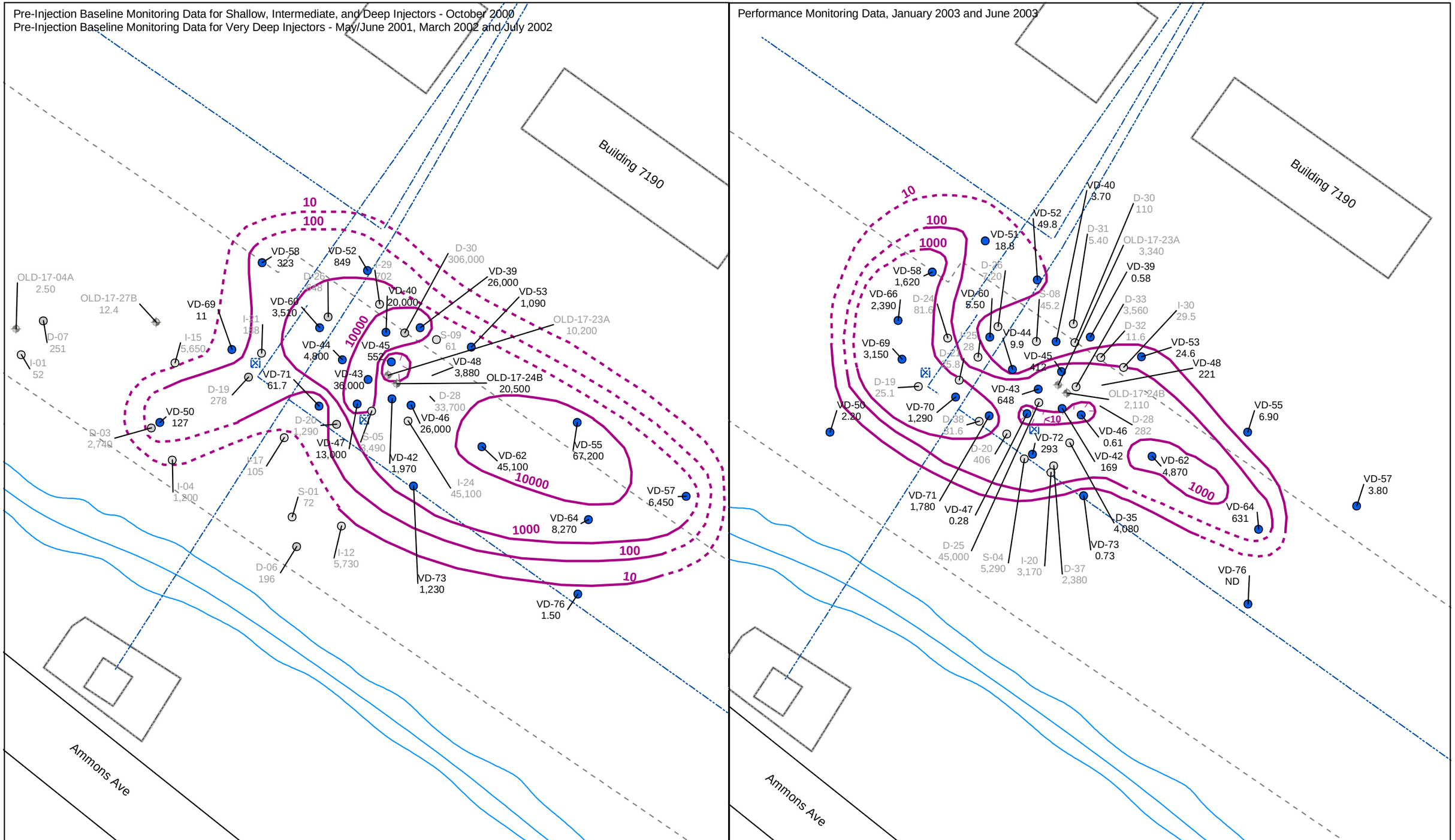
To evaluate effectiveness of the ISCO technology, analytical data from the January and June 2003 events were compared primarily to the pre-injection baseline event completed in October 2000. Pre-injection data from May/June 2001, March 2002, and July 2002 events were used for the very deep injectors when comparing to the January and June 2003 performance monitoring events.

Figures 2-3, 2-5, and 2-7 present a comparison of TCE, total CVOCs, and chloride in the deep zone, respectively using data from the October 2000 and January/June 2003 sample collection events. Figures 2-8 and 2-9 present a 3-D view of TCE and total CVOCs created using the EVS. These figures also present a side-by-side 3-D representation of the TCE and total CVOC plume using the pre-injection and the most recent performance monitoring events.

The maximum TCE concentration detected in the 23 very deep injectors during the June 2003 sampling event was 6,034 µg/L. TCE concentrations decreased in 16 of the 19 very deep injectors when comparing the pre-injection data to the data from the latest events completed in January and June 2003. Fourteen of the 16 very deep injectors exhibited an order of magnitude reduction when comparing the two data sets. Figures 2-10, 2-11, and 2-12 present the distribution of TCE, total CVOCs, and chloride, respectively using data from the pre-injection sampling events (i.e., May/June 2001, March 2002, and July 2002) and the most recent performance monitoring events completed in January and June 2003.

Chloride concentrations slightly increased in the very deep injectors when comparing the pre-injection data to the analytical data collected from the most recent performance monitoring events. The average chloride concentration detected in samples collected during the pre-injection sampling events was 21 mg/L compared to the average of 25.2 mg/L from the January and June 2003 performance monitoring events. The site average chloride ion concentration in the very deep zone has essentially returned to its equilibrium condition exhibited prior to the injection. Increases in chloride concentration are routinely common immediately following injection indicating oxidation is taking place.

Eighteen of the 22 injectors sampled to evaluate ISCO performance in the very deep zone showed a TCE concentration reduction ranging from one to five orders of magnitude when comparing the baseline concentration to the concentration detected in the most recent sample collection event. A data summary table summarizing the performance monitoring



Shallow Well
Intermediate Well
Shallow Injector (10-13 ft bls)
Intermediate Injector (16-19 ft bls)
Deep Injector (22-25 ft bls)
Very Deep Injector (31-34 or 33-36 ft bls)
bls = below land surface

Known Isoconcentration Contour
Inferred Isoconcentration Contour
Building
Fence
Road
Creek
WaterLine

40 20 0 40 Feet

Figure 2-10
TCE Isoconcentration in Very Deep Zone
Study Area 17, Naval Training Center
Orlando, Florida

CH2MHILL

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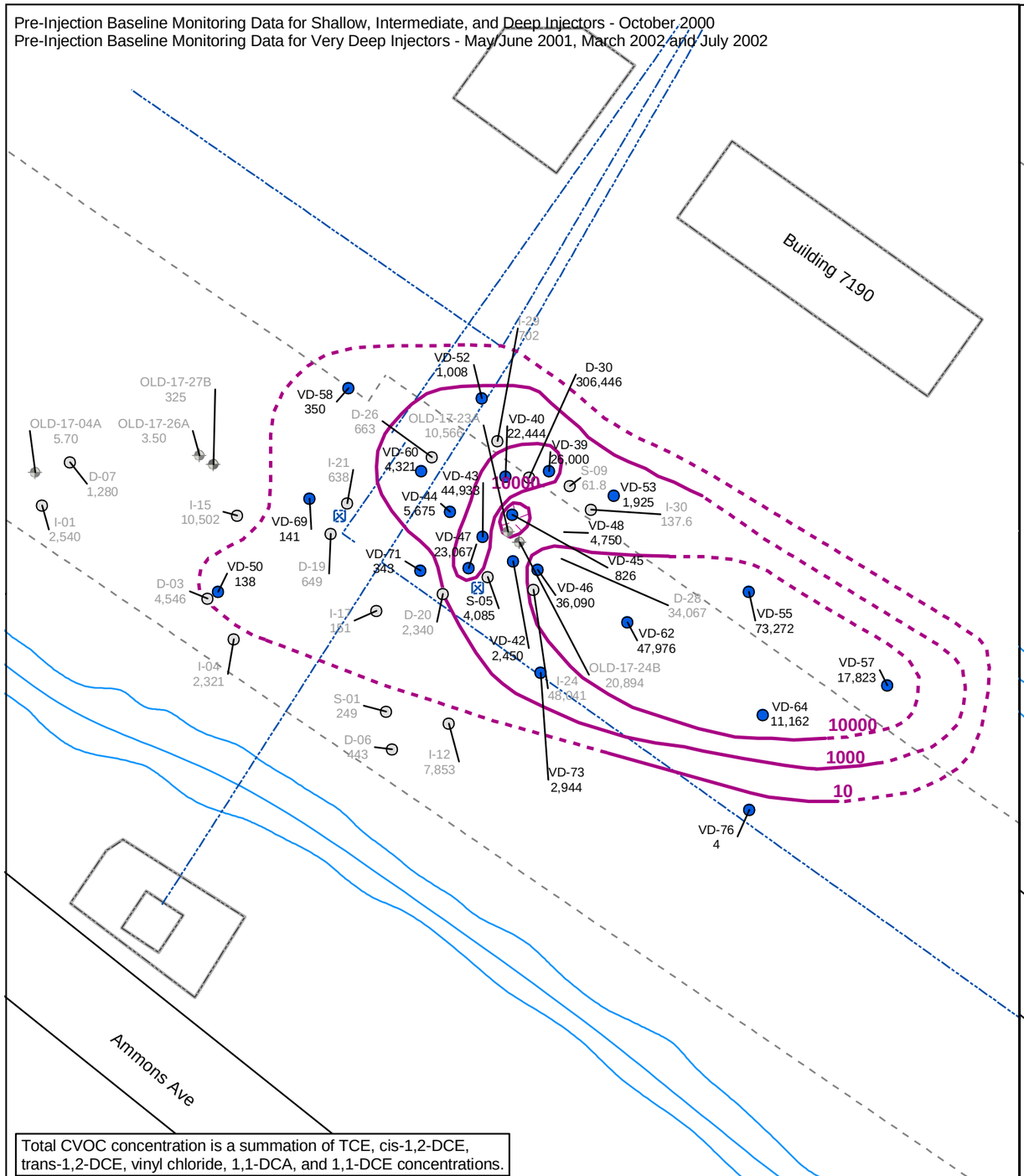

Total CVOC concentration is a summation of TCE, cis-1,2-DCE, trans-1,2-DCE, vinyl chloride, 1,1-DCA, and 1,1-DCE concentrations.

Total CVOC concentration is a summation of TCE, cis-1,2-DCE, trans-1,2-DCE, vinyl chloride, 1,1-DCA, and 1,1-DCE concentrations.

- Shallow Well
- Intermediate Well
- Shallow Injector (10-13 ft bls)
- Intermediate Injector (16-19 ft bls)
- Deep Injector (22-25 ft bls)
- Very Deep Injector (31-34 or 33-36 ft bls)

bls = below land surface

- Known Isoconcentration Contour
- Inferred Isoconcentration Contour
- Building
- Fence
- Road
- Creek
- WaterLine

40 20 0 40 Feet

N W E S

Figure 2-11
Total CVOC Isoconcentration in Very Deep Zone
Study Area 17, Naval Training Center
Orlando, Florida

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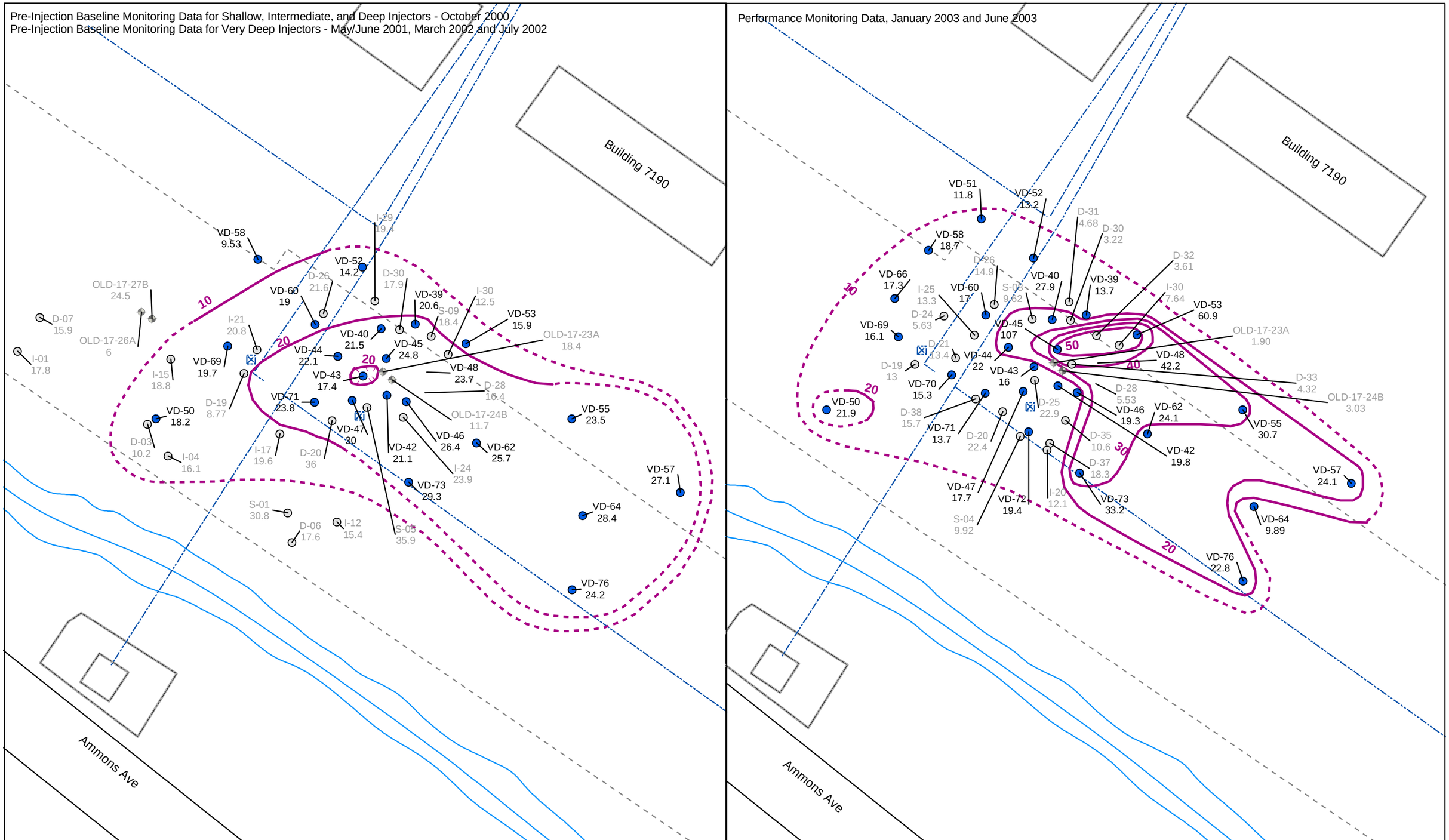

Shallow Well
Intermediate Well
Shallow Injector (10-13 ft bls)
Intermediate Injector (16-19 ft bls)
Deep Injector (22-25 ft bls)
Very Deep Injector (31-34 or 33-36 ft bls)
bls = below land surface

Known Isoconcentration Contour
Inferred Isoconcentration Contour
Building
Fence
Road
Creek
WaterLine

40 20 0 40 Feet

Figure 2-12
Chloride Isoconcentration in Very Deep Zone
Study Area 17, Naval Training Center
Orlando, Florida

CH2MHILL

File Path: \\boomer\g\projects2\NTC-Orlando\MXD\figure2-12_verydeepchloride.mxd, Date: 07 04, 2003, User: NMOUDRY

results from the July 2002 sampling event through the latest event completed in June 2003 is provided in Appendix C.

3.0 Conclusions and Recommendations

Monitoring well data is used to evaluate effectiveness of the ISCO IRA at the SA-17 site. When evaluating this effectiveness usually the data set from the pre-injection event (i.e., October 200) is compared to the most recent performance monitoring event (i.e., June 2003). However, the complete analytical data set from the October 200 and June 2003 sampling events can not be compared directly due to the variation in sample collection points. As a result, TCE and total CVOC concentrations from sampling events completed from October 2000 through July 2002 were directly compared to TCE and total CVOC concentrations from the same sample location during the January 2003 and June 2003 sampling events. The results from the initial sample collected from a particular injector or well prior to ISCO injection serves as the baseline concentration. In some incidences, as in the case of the very deep injectors used during the Phase II ISCO application, the baseline event or initial event in which the location was sampled did not occur until 2002 (i.e., March 2002, April 2002, or July 2002). Ultimately data from 3 monitoring wells and 2 shallow, 2 intermediate, 11 deep, and 22 very deep injectors were used to evaluate ISCO performance at SA-17. Table 3-1 presents the baseline and most recent TCE, total CVOC, and chloride concentrations used in evaluating the ISCO effectiveness.

Because of the high concentration of sample collection points at the SA-17 site, average TCE and total CVOC concentrations were used to evaluate ISCO effectiveness. TCE and total CVOC concentrations decreased 88.1 and 87.7 percent, respectively based on a comparison of the pre-injection "baseline" sample collection event to the most recent event. For each location the most recent sample collection event was completed in either January 2003 or June 2003 sampling event. Overall reduction in chloride concentration in the shallow, intermediate, and deep injectors when comparing the pre-injection events to the most recent performance monitoring data indicates reductive dechlorination is no longer occurring in these zones. The primary reason for the contaminant reduction in these zones is the success of the in-situ chemical oxidation application at SA-17. The site average chloride ion concentration in the very deep zone has essentially returned to its equilibrium condition exhibited prior to the initial injection.

Figure 2-9 depicts the 3-D representation of total CVOC concentrations greater than 1,000 μg/L using EVS software and using data from the pre-injection and January/ June 2003 sampling events. It is difficult to tell but the difference in the two plume representations calculated using the EVS software was approximately 84 percent in both dissolved contaminant mass and volume. The EVS software uses krigging to calculate both contaminant volume and mass. These results demonstrate the application of the ISCO technology at SA-17 was successful.

Based on the data generated during the two most recent sampling event completed in January and June 2003, two deep injectors (D-25 and D-33) and one monitoring well (OLD-17-23A) had detected concentrations of TCE at or greater than 1 percent of the maximum solubility in water. The maximum solubility of TCE in water is approximately 1,100 mg/L. Concentrations of this level are often a likely indicator of the presence of a

TABLE 3-1
ISCO IRA Performance Data
Study Area 17, Naval Training Center Orlando, Orlando, Florida

	Pre-Injection Monitoring Event				Performance Monitoring Event				Difference (Baseline - Most Recent)		
Monitoring Location	Date	TCE (µg/L)	TVOC[1] (µg/L)	Chloride (mg/L)	Date	TCE (µg/L)	TVOC[1] (µg/L)	Chloride (mg/L)	TCE (µg/L)	TVOC[1] (µg/L)	Chloride (mg/L)
OLD-17-23A	October 2000	10,200	10,566	18.4	June 2003	3,340	3,353	1.9	6,860	7,213	16.5
OLD-17-24B	October 2000	20,500	20,894	11.7	June 2003	2,110	2,122	3.03	18,390	18,772	8.7
OLD-17-25C	April 2002	0.59	0.79	24.4	January 2003	0.5	0.5	21.2	0	0	3.2
S-04	April 2002	1.6	1.6	23.5	June 2003	5,290	5,447	9.92	-5,288	-5,445	13.6
S-08	April 2002	48.8	49	11.2	January 2003	45.2	89.7	9.62	4	-41	1.6
I-25	April 2002	2.4	3.35	12.4	January 2003	28	34.2	13.3	-26	-31	-0.9
I-30	October 2000	247 B	137.6	12.5	January 2003	29.5	42.3	7.64	218	95	239
D-19	October 2000	278	649	8.77	January 2003	25.1	86.7	13	253	562	-4.2
D-20	October 2000	1,290	2,340	36	June 2003	406	517	22.4	884	1,823	13.6
D-21	April 2002	21.9	36.7	14.1	January 2003	25.8	44.2	13.4	-4	-8	0.7
D-25	July 2002	12,500	12,929	21.8	June 2003	45,000	45,184	22.9	-32,500	-32,255	-1.1
D-26	October 2000	648	56.13	21.6	January 2003	7.2	11.74	14.9	641	44	6.7
D-28	October 2000	33,700	663	16.4	June 2003	282	310	5.53	33,418	353	10.9
D-30	October 2000	306,000	306,446	17.9	June 2003	110	110	3.22	305,890	306,336	14.7
D-31	April 2002	1,210	1,217	19.1	June 2003	5.4	5.4	4.68	1,205	1,212	14.4
D-33	July 2002	5,030	5,049	9.78	June 2003	3,560	3,571	4.34	1,470	1,478	5.4
D-35	July 2002	1,090	1,146	24.6	June 2003	4,080	4,248	10.6	-2,990	-3,102	14.0
D-37	July 2002	958	1,060	10.9	June 2003	2,380	2,572	18.3	-1,422	-1,512	-7.4
VD-39	May/June 2001	26,000	26,000	NA	June 2003	0.58	1.2	13.7	25,999	25,999	
VD-40	May/June 2001	20,000	22,444	21.5	June 2003	3.7	43.3	27.9	19,996	22,401	-6.4
VD-42	July 2002	1,970	2,450	21.1	June 2003	169	208	19.8	1,801	2,242	1.3
VD-43	May/June 2001	36,000	44,933	17.4	June 2003	684	1,124	16	35,316	43,809	1.4
VD-44	May/June 2001	4,800	5,675	22.1	June 2003	9.9	50	22	4,790	5,625	0.1
VD-45	July 2002	552	826	24.8	June 2003	412	531	107	140	295	-82
VD-46	May/June 2001	26,000	36,090	26.4	June 2003	0.61	61.5	19.3	25,999	36,029	7.1
VD-47	May/June 2001	13,000	23,067	30	June 2003	0.28	1.78	17.7	13,000	23,065	12.3
VD-48	May/June 2001	3,880	4,750	NA	June 2003	221	300	42.2	3,659	4,450	
VD-50	July 2002	127	138	18.2	June 2003	2.2	19	21.9	125	119	-3.7
VD-52	March 2002	849	1,008	14.2	January 2003	49.8	101	13.2	799	907	1.0
VD-53	March 2002	1,090	1,925	15.9	January 2003	24.6	86.3	60.9	1,065	1,839	-45
VD-55	March 2002	67,200	73,272	23.5	June 2003	6.9	60.6	30.7	67,193	73,211	-7.2
VD-57	March 2002	6,450	17,823	27.1	June 2003	3.8	93	24.1	6,446	17,730	3.0
VD-58	March 2002	323	350	9.53	June 2003	1,620	2,165	18.7	-1,297	-1,815	-9.2
VD-60	March 2002	3,510	4,321	19	June 2003	5.5	89.8	17	3,505	4,231	2.0
VD-62	March 2002	45,100	47,976	25.7	June 2003	4,870	6,030	24.1	40,230	41,946	1.6
VD-64	March 2002	8,270	11,162	28.4	June 2003	631	776	9.89	7,639	10,386	18.5
VD-69	March 2002	11	141	19.7	June 2003	3,150	3,483	16.1	-3,139	-3,342	3.6
VD-71	March 2002	61.7	343	23.8	June 2003	1,780	2,076	13.7	-1,718	-1,733	10.1
VD-73	March 2002	1,230	2,944	29.3	June 2003	0.73	1.41	33.2	1,229	2,943	-3.9
VD-76	March 2002	1.5	4	24.2	January 2003	0.5	21.3	22.8	1.0	-17.3	1.4
Average Concentration		16,921	17,272			2,009	2,127				
Percent Reduction		88.13%	87.69%								

Notes:
[1] Total CVOCs is a summation of TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCA, and 1,1-DCE concentrations.
"B" flag indicates the analyte was detected in the associated trip blank.
NA indicates chloride was not analyzed during the sample collection event.

DNAPL source area near the monitored location. As a result of these elevated TCE concentrations, CCI recommends a focused investigation to characterize the localized areas of elevated concentration. The goal is to identify the extent of these source areas of elevated CVOC concentration and remove them where possible through excavation. The objective for further corrective action activities is to remove and/or reduce the identified source areas of elevated concentration to promote natural and/or enhanced biodegradation of the residual plume.

4.0 References

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Appendix A

Phase I ISCO IRA Data Summary
(May 1995 through February 2001)

Appendix A. Data Summary Table - Phase I ISCO IRA Data Summary (May 1995 through February 2001)
Construction Documentation Report. IRA at SA-17, NTC Orlando, Orlando, Florida

			Petroleum Hydrocarbons (ug/L)		Chlorinated Aliphatic Hydrocarbons (ug/L)						Inorganics
Location	Date	Data Source	Gasoline-Range Organics	Diesel-Range Organics	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride	Chloride (mg/L)
Old-17-04A	31-May-95	1	NA	NA	ND (<10)	3 J	200	5 J	42	190	NA
	17-Jun-96	1	NA	NA	ND (no RL)	21 J	600	ND (no RL)	100	610	NA
	12-Feb-97	1	NA	NA	ND (<0.5)	16	460	6.9	120	450	NA
	19-Jun-98	1	NA	NA	ND (<17)	26	420	4.1 J	260	350	NA
	07-Nov-00	3	NA	NA	ND (<1)	ND (<1)	1.9	ND (<1)	2.5	1.3	NA
Old-17-26A	17-Jun-98	1	NA	NA	ND (<50)	ND (<5)	1.9 J	ND (<2.5)	ND (<5)	13	NA
	24-Feb-00	2	NA	NA	ND (no RL)	ND (no RL)	ND (no RL)	ND (no RL)	ND (no RL)	3.5	6
Old-17-27B	17-Jun-98	1	NA	NA	ND (<10)	6.1 J	360	12	60	360	NA
	24-Feb-00	2	NA	NA	ND (no RL)	2.7	140	9.4	12.4	160	24.5
Old-17-23A and Old-17-23A-R	18-Jun-98	1	NA	NA	ND (<5)	ND (<5)	8.8	ND (<2.5)	20	ND (<10)	NA
	18-Jun-98 (dup)	1	NA	NA	ND (<5)	ND (<5)	9.9	ND (<2.5)	25	ND (<10)	NA
	25-Feb-00	2	NA	NA	ND (no RL)	ND (no RL)	169	2	1,190	ND (no RL)	13.1
	02-Oct-00	3	5,700	ND (<90)*	ND (<200)	ND (<200)	366	ND (<200)	10,200	ND (<200)	18.4
	13-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	ND (<1)	ND (<1)	0.70 J	ND (<1)	15
	30-Jan-01	3	ND (<40)	NA	ND (<1)	ND (<1)	ND (<1)	ND (<1)	1.8	ND (<1)	12
	21-Feb-01	3	75	NA	ND (<1)	ND (<1)	18	ND (<1)	80	ND (<1)	9.02
Old-17-24B and Old-17-24B-R	18-Jun-98	1	NA	NA	ND (<2,500)	ND (<2,500)	ND (<1,200)	ND (<1,200)	65,000	ND (<5,000)	NA
	18-Jun-98 (dup)	1	NA	NA	ND (<2,500)	ND (<2,500)	ND (<1,200)	ND (<1,200)	72,000	ND (<5,000)	NA
	25-Feb-00	2	NA	NA	ND (no RL)	ND (no RL)	108 E	2	28,900 E	ND (no RL)	30.3
	02-Oct-00	3	NA	NA	ND (<200)	ND (<200)	394	ND (<200)	20,500	ND (<200)	11.7
	13-Dec-00	3	457	NA	ND (<1)	ND (<1)	16	0.58 J	1,600	ND (<1)	26
	30-Jan-01	3	940	NA	ND (<10)	ND (<10)	ND (<10)	ND (<10)	2,600	ND (<10)	24
	21-Feb-01	3	1,400	NA	ND (<1)	ND (<1)	48	1.3	3,000	ND (<1)	16
S-1	04-Oct-00	3	140	ND (<100)*	ND (<2)	ND (<2)	176	0.72 J	72	ND (<2)	30.8
	12-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	23
	29-Jan-01	3	19 J	NA	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	24
	19-Feb-01	3	ND	NA	ND (<1)	ND (<1)	ND (<1)	ND (<1)	3.6	ND (<1)	24
S-5	05-Oct-00	3	1,700	110*	ND (<2)	1.5 J	592	1.9 J	3,490	ND (<2)	35.9
	14-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	25
	29-Jan-01	3	57	NA	ND (<1)	ND (<1)	8.9	ND (<1)	82	ND (<1)	24
	19-Feb-01	3	76	NA	ND (<1)	ND (<1)	32	ND (<1)	110	ND (<1)	25
S-9	02-Oct-00	3	11 J	ND (<40)*	ND (<2)	ND (<2)	0.79 J	ND (<2)	61	ND (<2)	18.4
	13-Dec-00	3	126	NA	ND (<1)	ND (<1)	ND (<1)	ND (<1)	240	ND (<1)	23
	30-Jan-01	3	ND (<80)	NA	ND (<1)	ND (<1)	0.79 J	ND (<1)	ND (<1)	ND (<1)	17
	21-Feb-01	3	97	NA	ND (<1)	ND (<1)	0.65 J	ND (<1)	170	ND (<1)	11
I-1	04-Oct-00	3	840	420*	ND (<20)	25	1,610	10 J	52	843	17.8
	07-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	6.2	ND (<1)	0.58 J	ND (<1)	21
	31-Jan-01	3	55 J	NA	ND (<1)	1.1	87	2.1	ND (<1)	160	25
	19-Feb-01	3	64	NA	0.27 J	1.8	120	3.2	ND (<1)	170	23
I-4	03-Oct-00	3	NA	NA	ND (<20)	26	900	81	1,200	114	16.1
	11-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	0.80 J	ND (<1)	2.6	ND (<1)	20
	31-Jan-01	3	250	NA	ND (<10)	ND (<10)	ND (<10)	22	260	24	21
	19-Feb-01	3	220	NA	ND (<1)	4.1	240	29	230	25	20
I-12	04-Oct-00	3	4,000	NA	53	125	1,810	22	5,730	113	15.4
	12-Dec-00	3	80.8	NA	10	4.4	85	1.5	160	3.6	19
	29-Jan-01	3	430	NA	9.7	8.8	200	ND (<5)	640	10	21
	19-Feb-01	3	570	NA	14	14	240	4.9	940	14	22
I-15	03-Oct-00	3	4,200	230*	ND (<200)	72 J	4,160	56 J	5,650	636	18.8
	07-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	3.3	ND (<1)	22	ND (<1)	25
	31-Jan-01	3	460	NA	ND (<10)	ND (<10)	450	6.4 J	510	66	26
	20-Feb-01	3	700	NA	ND (<1)	4.5	510	12	590	ND (<50)	25
I-17	03-Oct-00	3	NA	290*	ND (<2)	0.47 J	37	1 J	105	7.2	19.6
	11-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	ND (<1)	ND (<1)	1.2	ND (<1)	18
	01-Feb-01	3	ND (<80)	NA	ND (<1)	ND (<1)	0.93 J	ND (<1)	ND (<1)	ND (<1)	21
	20-Feb-01	3	ND (<40)	NA	ND (<1)	ND (<1)	0.87 J	ND (<1)	5.1	ND (<1)	21
I-21	04-Oct-00	3	NA	NA	ND (<20)	7.2 J	377	41	188	25	20.8
	11-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	0.56	ND (<1)	1.5	ND (<1)	19
	01-Feb-01	3	14 J	NA	ND (<1)	ND (<1)	24	2.5	5.8	2.2	15
	01-Feb-01		22 J	NA	ND (<1)	ND (<1)	29	ND (<1)	10	ND (<1)	15
I-24	05-Oct-00	3	NA	NA	81	241	2,380	28	45,100	211	23.9
	12-Dec-00	3	173	NA	31	22	240	6.7	1,900	34	19
	29-Jan-01	3	26,000	NA	31 J	22 J	750	ND (<50)	9,700	35 J	23
	20-Feb-01	3	3,400	NA	67	35	660	13	5,700	59	24
I-29	02-Oct-00	3	16 J	100*	ND (<20)	ND (<20)	ND (<20)	ND (<20)	702	ND (<20)	19.4
	13-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	ND (<1)	ND (<1)	3.3	ND (<1)	27
	01-Feb-01	3	ND (<80)	NA	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	31
	21-Feb-01	3	39 J	NA	ND (<10)	ND (<10)	ND (<10)	ND (<10)	78	ND (<10)	30
I-30	02-Oct-00	3	NA	NA	17	92	2.6 J	ND (<10)	247 B	26	12.5
	13-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	ND (<1)	ND (<1)	5.0	0.37 J	22
	01-Feb-01	3	ND (<80)	NA	3.4	6.8	ND (<1)	ND (<1)	ND (<1)	7.3	15
	21-Feb-01	3	60	NA	1.5	4.9	ND (<1)	ND (<1)	100	3	14
D-3	03-Oct-00	3	NA	NA	ND (<200)	39 J	1,520	55 J	2,740	192 J	10.2
	07-Dec-00	3	ND (<100)	NA	ND (<1)	3.5	430	19	760	28	22
	31-Jan-01	3	200	NA	ND (<10)	ND (<10)	190	16	380	8 J	23
	19-Feb-01	3	1,000	NA	ND (<1)	10	810	53	1,400	86	23
D-6	03-Oct-00	3	150	390*	ND (<20)	ND (<20)	243	4 J	196	ND (<20)	17.6
	12-Dec-00	3	561	NA	5.8	7.0	980	12	74	0.56 J	20
	29-Jan-01	3	320	NA	ND (<10)	ND (<10)	690	6.6 J	33	ND (<10)	20
	19-Feb-01	3	670	NA	3.6	5.7	950	9.9	79	0.58 J	19
D-7	04-Oct-00	3	NA	NA	ND (<20)	15 J	842	4.8 J	251	167	15.9
	07-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	1.4	ND (<1)	1.9	ND (<1)	18
	31-Jan-01	3	130	NA	ND (<10)	ND (<10)	230	3.1 J	17	17	25
	19-Feb-01	3	210	NA	0.36 J	2.3	370	7.4	51	38	23
D-19	03-Oct-00	3	NA	NA	ND (<20)	5.3 J	310	32	278	29	8.77
	11-Dec-00	3	ND (<100)	NA	ND (<1)	0.74 J	7.7	0.74 J	5.9	0.35 J	16
	31-Jan-01	3	14 J	NA	ND (<1)	ND (<1)	20	1.8	14	0.88 J	20
	20-Feb-01	3	30 J	NA	ND (<1)	ND (<1)	22	2.3	34	ND (<1)	20
D-20	02-Oct-00	3	NA	NA	ND (<20)	ND (<20)	1,050	25	1,290	ND (<20)	36
	14-Dec-00	3	ND (<100)	NA	ND (<1)	0.74 J	240	7.8	480	ND (<1)	27
	01-Feb-01	3	37 J	NA	ND (<1)	ND (<1)	23	0.55 J	36	ND (<1)	26
	20-Feb-01	3	92	NA	ND (<1)	ND (<1)	78	2.4	120	ND (<1)	28
D-26	02-Oct-00	3	NA	NA	ND (<20)	ND (<20)	15 J	ND (<20)	648	ND (<20)	21.6
	13-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	3.9	ND (<1)	1.6	ND (<1)	30
	30-Jan-01	3	ND (<80)	NA	ND (<1)	ND (<1)	4.5	ND (<1)	ND (<1)	ND (<1)	31
	21-Feb-01	3	ND (<40)	NA	ND (<1)	ND (<1)	4.4	ND (<1)	0.86 J	ND (<1)	31
D-28	05-Oct-00	3	NA	NA	24	96	837	23	33,700	25	16.4
	14-Dec-00	3	ND (<100)	NA	ND (<1)	ND (<1)	0.54 J	ND (<1)	14	ND (<1)	18
	30-Jan-01	3	560	NA	6.6 J	4 J	51	ND (<10)	1,400	5.1 J	14
	20-Feb-01	3	340	NA	7.7	3.7	43	1.7	870	5.8	14
D-30	02-Oct-00	3	78,500	180*	ND (<200)	ND (<200)	415	31 J	306,000 B	ND (<200)	17.9
	13-Dec-00	3	9,190	NA	ND (<1)	ND (<1)	29	2.6	27,000	ND (<1)	32
	30-Jan-01	3	8,900	NA	ND (<500)	ND (<500)	ND (<500)	ND (<500)	26,000	ND (<500)	110
	21-Feb-01	3	43,000	NA	ND (<50)	ND (<50)	84	ND (<50)	76,000	ND (<50)	43
VD-40	08-May-01	3	ND (<400)	NA	ND (<1.0)	3.6	2,400	26	20,000	8.5	21.5
VD-43	08-May-01	3	ND (<400)	NA	ND (<1.0)	1.7	8,900	23	36,000	6.1	17.4
VD-44	08-May-01	3	ND (<400)	NA	ND (<1.0)	2.2	840	22	4,800	8.7	22.1
VD-46	08-May-01	3	ND (<4,000)	NA	1.5	12	10,000	50	26,000	12	26.4
VD-47	08-May-01	3	ND (<400)	NA	ND (<1.0)	4.2	10,000	34	13,000	25	30.0

"J" flag indicates analyte was detected but at a concentration below the reporting limit
"E" flag indicates the result exceeds the linear calibration limit and is an estimated value
"B" flag indicates the analyte was detected in the associated trip blank
"ND" indicates compound was not detected at the quoted reporting limit
"ND (no RL)" indicates compound was not detected but the reporting limit was not quoted
"NA" indicates compound was not analyzed
Data Sources: 1: Base Realignment and Closure Environmental Site Screening Report, Study Area 17, Naval Training Center, Orlando, Florida. Southern Division, Naval Facilities Engineering Command (March 1999)
2: Phase I and II Data Report for Study Area 17, NTC, Orlando. CH2M Hill (May 15, 2000)
3: Pre-treatment and performance monitoring samples collected by CH2M Hill as part of the treatment program
*Diesel-range organics were sampled 10/15/2000 - 10/16/2000

Appendix B

Very Deep Zone Characterization Data Summary
(May and June 2001)

Location	Date	Sample Depth (ft)	Data Source	Chlorinated Aliphatic Hydrocarbons (ug/L)					
				1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl Chloride
VD-39	12-Jun-01	31-34	4	ND (<500)	ND (<500)	ND (<500)	ND (<500)	26,000	
VD-40	8-May-01	31-34	3	ND (<1.0)	3.6	2,400	26	20,000	8.5
VD-43	8-May-01	31-34	3	ND (<1.0)	1.7	8,900	23	36,000	6.1
VD-44	8-May-01	31-34	3	ND (<1.0)	2.2	840	22	4,800	8.7
VD-46	8-May-01	31-34	3	1.5	12	10,000	50	26,000	12
VD-47	8-May-01	31-34	3	ND (<1.0)	4.2	10,000	34	13,000	25
VD-48	12-Jun-01	31-34	4	ND (<5)	ND (<5)	870	ND (<5)	3,880	ND (<5)
DPT-21	11-Jun-01	38-40	4	No Yield / Not Analyzed					
	11-Jun-01	44-46	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
	11-Jun-01	50-52	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DPT-22	11-Jun-01	38-40	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
	12-Jun-01	44-46	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
	12-Jun-01	50-52	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DPT-23	12-Jun-01	32-34	4	ND (<5)	ND (<5)	1,520	ND (<5)	18,500	ND (<5)
	12-Jun-01	34-36	4	ND (<250)	ND (<250)	1,150	ND (<250)	970	ND (<250)
	12-Jun-01	38-40	4	ND (<50)	ND (<50)	970	ND (<50)	250	ND (<50)
	12-Jun-01	44-46	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DPT-24	12-Jun-01	32-34	4	ND (<5)	ND (<5)	25.0	ND (<5)	50.0	ND (<5)
	12-Jun-01	34-36	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
	12-Jun-01	38-40	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DPT-25	13-Jun-01	32-34	4	ND (<5)	ND (<5)	30	ND (<5)	75	ND (<5)
	13-Jun-01	34-36	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
	13-Jun-01	38-40	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DPT-26	13-Jun-01	32-34	4	ND (<250)	ND (<250)	350	ND (<250)	10,000	ND (<250)
	13-Jun-01	34-36	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	37.0	ND (<5)
	13-Jun-01	38-40	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	41.0	ND (<5)
DPT-27	14-Jun-01	32-34	4	ND (<5)	ND (<5)	330	ND (<5)	370	ND (<5)
	14-Jun-01	34-36	4	ND (<100)	ND (<100)	2,470	ND (<100)	15,000	ND (<100)
	14-Jun-01	38-40	4	ND (<5)	ND (<5)	370	ND (<5)	200	ND (<5)
DPT-28	14-Jun-01	32-34	4	ND (<5)	ND (<5)	290	ND (<5)	130	ND (<5)
	14-Jun-01	34-36	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
	14-Jun-01	38-40	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DPT-29	15-Jun-01	32-34	4	ND (<5)	ND (<5)	310	ND (<5)	ND (<5)	ND (<5)
	15-Jun-01	34-36	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
	15-Jun-01	38-40	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DPT-30	13-Jun-01	32-34	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
	13-Jun-01	34-36	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
	13-Jun-01	38-40	4	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DPT-31	18-Jun-01	32-34	5	ND (<1)	ND (<1)	12	ND (<1)	ND (<1)	ND (<1)
	18-Jun-01	34-36	5	ND (<1)	ND (<1)	60	ND (<1)	ND (<1)	ND (<1)
	18-Jun-01	38-40	5	ND (<1)	ND (<1)	170	ND (<1)	ND (<1)	ND (<1)
DPT-32	18-Jun-01	32-34	5	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)
	18-Jun-01	34-36	5	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)
	18-Jun-01	38-40	5	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)
DPT-33	19-Jun-01	32-34	5	ND (<1)	ND (<1)	5	ND (<1)	ND (<1)	ND (<1)
	19-Jun-01	34-36	5	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)
	19-Jun-01	38-40	5	No Yield / Not Analyzed					
DPT-34	19-Jun-01	32-34	5	130	530	3,900	25	410	1,700
	19-Jun-01	34-36	5	ND (<1)	6	510	7	ND (<1)	7
	19-Jun-01	38-40	5	ND (<1)	ND (<1)	270	4	ND (<1)	2
DPT-35	19-Jun-01	32-34	5	21	39	990	9	ND (<1)	1,500
	19-Jun-01	34-36	5	49	170	2,800	17	ND (<1)	1,900
	19-Jun-01	38-40	5	30	150	2,900	18	ND (<1)	630

Notes:

"ND" indicates compound was not detected at the quoted reporting limit

Data Sources: 1: Samples collected by CH2M Hill and analyzed by PEL Laboratories.

2: Samples collected by GCI and analyzed onsite by mobile laboratory.

3: Samples collected by GCI and analyzed by PEL Laboratories.

Appendix C

Phase II ISCO IRA Data Summary
(July 2002 throughJune 2003)

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	VD-39	VD-39	VD-39	VD-39	VD-40	VD-40	VD-40
	Client Sample ID:	17VD39Q302	717VD39Q402	1717VD39Q103	1717VD39Q203	17VD40Q302	17VD40Q402	717VD40Q402
	Lab Sample ID:	220703201	221010411	230115516	230509409	220703302	221007410	221010408
	Date Collected:	07/11/2002	10/10/2002	01/23/2003	06/05/2003	07/11/2002	10/08/2002	10/10/2002
Parameter	**Units**							
Miscellaneous Parameters								
Chloride	mg/l	**20.6 =**	**27.5 =**	**14 =**	**13.7 =**	**19.8 =**	**34.5 =**	**31.9 =**
Volatile Organic Constituents								
1,1,1,2-Tetrachloroethane	ug/l							
1,1,1-Trichloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	**12.2 =**	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/l	5 U	**1 =**	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	5 U	1 U	1 U	1 U	**1.3 =**	1 U	1 U
1,1-Dichloropropene	ug/l							
1,2,3-Trichlorobenzene	ug/l							
1,2,3-Trichloropropane	ug/l							
1,2,4-Trichlorobenzene	ug/l							
1,2,4-Trimethylbenzene	ug/l							
1,2-Dibromo-3-chloropropane	ug/l							
1,2-Dibromoethane(EDB)	ug/l							
1,2-Dichlorobenzene	ug/l							
1,2-Dichloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l							
1,3-Dichlorobenzene	ug/l							
1,3-Dichloropropane	ug/l							
1,4-Dichlorobenzene	ug/l							
1-Chlorohexane	ug/l							
2,2-Dichloropropane	ug/l							
2-Butanone	ug/l	25 U	**5.4 =**	**4.3 =**	**6.6 =**	**4.4 J**	**13.4 =**	**12.9 =**
2-Chlorotoluene	ug/l							
2-Hexanone	ug/l	25 U	5 U	4 U	2 U	5 U	5 U	5 U
4-Chlorotoluene	ug/l							
4-Isopropyltoluene	ug/l							
4-Methyl-2-pentanone	ug/l	25 U	5 U	4 U	2 U	5 U	5 U	5 U
Acetone	ug/l	50 U	**131 =**	**14.1 =**	**10.6 =**	**14.9 =**	**622 =**	**778 =**
Benzene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/l							
Bromochloromethane	ug/l							
Bromodichloromethane	ug/l	5 U	**0.37 J**	1 U	1 U	1 U	**0.73 J**	1 U
Bromoform	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	5 U	1 U	1 UR	1 U	1 U	1 U	1 U
Carbon disulfide	ug/l	5 U	**3.9 =**	1 U	1 U	1 U	**4.1 =**	**6.9 =**
Carbon tetrachloride	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	**2.4 J**	**2.7 =**	1 U	1 U	**0.53 J**	**3.6 =**	**4.3 =**
Chloromethane	ug/l	5 U	**0.61 J**	1 UJ	1 U	1 U	**0.53 J**	**0.38 J**
cis-1,2-Dichloroethene	ug/l	**153 =**	**4.4 =**	**0.94 J**	**0.62 J**	**462 =**	**56.7 =**	**119 =**
cis-1,3-Dichloropropene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	ug/l							
Dichlorodifluoromethane	ug/l							
Ethylbenzene	ug/l	5 U	1 U	1 U	1 U	**0.27 J**	1 U	1 U
Hexachlorobutadiene	ug/l							
Isopropylbenzene (Cumene)	ug/l							
Methylene chloride	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	ug/l							
n-Propylbenzene	ug/l							
Naphthalene	ug/l							
o-Xylene	ug/l							
p,m-Xylene	ug/l							
Xylene (total)	ug/l	10 U	2 U	3 U	3 U	2 U	2 U	2 U
sec-Butylbenzene	ug/l							
Styrene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l							
Tetrachloroethene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	5 U	1 U	1 U	1 U	**0.3 J**	1 U	1 U
trans-1,2-Dichloroethene	ug/l	**3.4 J**	**0.32 J**	1 U	1 U	**13.9 =**	1 U	1 U
trans-1,3-Dichloropropene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**6290 =**	**798 =**	**38.1 =**	**0.58 J**	**595 =**	**28.7 =**	**65.6 =**
Trichlorofluoromethane	ug/l							
Vinyl chloride	ug/l	5 U	1 U	1 U	1 U	**1.4 =**	1 U	1 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	VD-40	VD-40	VD-42	VD-42	VD-42	VD-42
	Client Sample ID:	1717VD40Q103	1717VD40Q203	1717VD42Q3	717VD42Q402	1717VD42Q103	1717VD42Q203
	Lab Sample ID:	230113601	230510903	220700813	221008604	230113607	230510905
	Date Collected:	01/22/2003	06/06/2003	07/10/2002	10/09/2002	01/22/2003	06/06/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**38.4 =**	**27.9 =**	**21.1 =**	**17.3 =**	**19.8 =**	
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l						
1,1,1-Trichloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	**1.7 J**	**1.3 =**	1 U	**0.76 J**
1,1-Dichloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,1-Dichloropropene	ug/l						
1,2,3-Trichlorobenzene	ug/l						
1,2,3-Trichloropropane	ug/l						
1,2,4-Trichlorobenzene	ug/l						
1,2,4-Trimethylbenzene	ug/l						
1,2-Dibromo-3-chloropropane	ug/l						
1,2-Dibromoethane(EDB)	ug/l						
1,2-Dichlorobenzene	ug/l						
1,2-Dichloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l						
1,3-Dichlorobenzene	ug/l						
1,3-Dichloropropane	ug/l						
1,4-Dichlorobenzene	ug/l						
1-Chlorohexane	ug/l						
2,2-Dichloropropane	ug/l						
2-Butanone	ug/l	**504 =**	**406 =**	25 U	5 U	**36.3 =**	**32.9 =**
2-Chlorotoluene	ug/l						
2-Hexanone	ug/l	4 U	2 U	25 U	5 U	4 U	2 U
4-Chlorotoluene	ug/l						
4-Isopropyltoluene	ug/l						
4-Methyl-2-pentanone	ug/l	4 U	2 U	25 U	5 U	4 U	2 U
Acetone	ug/l	**497 =**	**103 =**	50 U	**63.9 =**	**89.8 =**	**34.1 =**
Benzene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Bromobenzene	ug/l						
Bromochloromethane	ug/l						
Bromodichloromethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Bromoform	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Bromomethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Carbon disulfide	ug/l	1 U	1 U	**2.4 J**	**2 =**	1 U	1 U
Carbon tetrachloride	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Chloroform	ug/l	1 U	1 U	5 U	**3.4 =**	**0.39 J**	**0.45 J**
Chloromethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/l	**78.5 =**	**39.6 =**	**462 =**	**8.4 =**	**23.1 =**	**39 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Dibromomethane	ug/l						
Dichlorodifluoromethane	ug/l						
Ethylbenzene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l						
Isopropylbenzene (Cumene)	ug/l						
Methylene chloride	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
MTBE	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
n-Butylbenzene	ug/l						
n-Propylbenzene	ug/l						
Naphthalene	ug/l						
o-Xylene	ug/l						
p,m-Xylene	ug/l						
Xylene (total)	ug/l	3 U	3 U	10 U	2 U	3 U	3 U
sec-Butylbenzene	ug/l						
Styrene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l						
Tetrachloroethene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Toluene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/l	1 U	1 U	**17.8 =**	1 U	**0.84 J**	**0.48 J**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Trichloroethene	ug/l	**10.2 =**	**3.7 =**	**1970 =**	**47.3 =**	**82.9 =**	**169 =**
Trichlorofluoromethane	ug/l						
Vinyl chloride	ug/l	**1.1 =**	1 U	5 U	1 U	1 U	1 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	VD-43	VD-43	VD-43	VD-43	VD-44	VD-44	VD-44
	Client Sample ID:	1717VD43Q3	717VD43Q402	1717VD43Q103	1717VD43Q203	1717VD44Q3	717VD44Q402	1717VD44Q103
	Lab Sample ID:	220700814	221008606	230112915	230508303	220700815	221005702	230112910
	Date Collected:	07/10/2002	10/09/2002	01/21/2003	06/04/2003	07/10/2002	10/07/2002	01/21/2003
Parameter	**Units**							
Miscellaneous Parameters								
Chloride	mg/l	**18 =**	**35.6 =**	**25.6 =**	**16 =**	**23.1 =**	**16.2 =**	**19.9 =**
Volatile Organic Constituents								
1,1,1,2-Tetrachloroethane	ug/l							
1,1,1-Trichloroethane	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
1,1-Dichloroethane	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
1,1-Dichloroethene	ug/l	5 U	1 U	1 U	**1.1 =**	10 U	**0.64 J**	1 U
1,1-Dichloropropene	ug/l							
1,2,3-Trichlorobenzene	ug/l							
1,2,3-Trichloropropane	ug/l							
1,2,4-Trichlorobenzene	ug/l							
1,2,4-Trimethylbenzene	ug/l							
1,2-Dibromo-3-chloropropane	ug/l							
1,2-Dibromoethane(EDB)	ug/l							
1,2-Dichlorobenzene	ug/l							
1,2-Dichloroethane	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
1,2-Dichloropropane	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l							
1,3-Dichlorobenzene	ug/l							
1,3-Dichloropropane	ug/l							
1,4-Dichlorobenzene	ug/l							
1-Chlorohexane	ug/l							
2,2-Dichloropropane	ug/l							
2-Butanone	ug/l	25 U	**11.3 =**	**13.2 =**	**1.8 J**	50 U	**4 J**	5 U
2-Chlorotoluene	ug/l							
2-Hexanone	ug/l	25 U	5 U	5 U	2 U	50 U	5 U	5 U
4-Chlorotoluene	ug/l							
4-Isopropyltoluene	ug/l							
4-Methyl-2-pentanone	ug/l	25 U	5 U	5 U	2 U	50 U	5 U	5 U
Acetone	ug/l	50 U	**688 =**	**557 =**	**9.4 =**	100 U	**72 =**	**33.4 J**
Benzene	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
Bromobenzene	ug/l							
Bromochloromethane	ug/l							
Bromodichloromethane	ug/l	5 U	**1.4 =**	**1.6 =**	1 U	10 U	1 U	1 U
Bromoform	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
Bromomethane	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
Carbon disulfide	ug/l	5 U	**4.4 =**	**7.6 =**	**3.4 =**	10 U	**0.84 J**	1 U
Carbon tetrachloride	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
Chlorobenzene	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
Chloroethane	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
Chloroform	ug/l	5 U	**7 =**	**6.6 =**	**1.9 =**	10 U	**1.9 =**	1 U
Chloromethane	ug/l	5 U	1 U	**0.39 J**	1 U	10 U	**0.36 J**	1 U
cis-1,2-Dichloroethene	ug/l	**390 =**	1 U	**10.6 =**	**426 =**	**822 =**	**231 =**	**50.4 =**
cis-1,3-Dichloropropene	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
Dibromochloromethane	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
Dibromomethane	ug/l							
Dichlorodifluoromethane	ug/l							
Ethylbenzene	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
Hexachlorobutadiene	ug/l							
Isopropylbenzene (Cumene)	ug/l							
Methylene chloride	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
MTBE	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
n-Butylbenzene	ug/l							
n-Propylbenzene	ug/l							
Naphthalene	ug/l							
o-Xylene	ug/l							
p,m-Xylene	ug/l							
Xylene (total)	ug/l	10 U	2 U	3 U	3 U	20 U	2 U	3 U
sec-Butylbenzene	ug/l							
Styrene	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
tert-Butylbenzene	ug/l							
Tetrachloroethene	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
Toluene	ug/l	5 U	1 U	1 U	1 U	**2.3 J**	**0.26 J**	**0.34 J**
trans-1,2-Dichloroethene	ug/l	**14.4 =**	1 U	**0.28 J**	**11.3 =**	**22.8 =**	**6.2 =**	**0.6 J**
trans-1,3-Dichloropropene	ug/l	5 U	1 U	1 U	1 U	10 U	1 U	1 U
Trichloroethene	ug/l	**1470 =**	1 U	**23.9 =**	**684 =**	**4990 =**	**797 =**	**41.2 =**
Trichlorofluoromethane	ug/l							
Vinyl chloride	ug/l	5 U	1 U	1 U	**1.1 =**	**3.7 J**	**1.2 =**	1 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
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NTC Orlando, Orlando, Florida

	StationID:	VD-44	VD-45	VD-45	VD-45	VD-45	VD-46	VD-46
	Client Sample ID:	1717VD44Q203	1717VD45Q3	17VD45Q402	1717VD45Q103	1717VD45Q203	17VD46Q302	17VD46Q402
	Lab Sample ID:	230508312	220700812	221007409	230112916	230510904	220703307	221007414
	Date Collected:	06/04/2003	07/10/2002	10/08/2002	01/21/2003	06/06/2003	07/11/2002	10/08/2002
Parameter	**Units**							
Miscellaneous Parameters								
Chloride	mg/l	**22 =**	**24.8 =**	**26.9 =**	**52.5 =**	**107 =**	**18.7 =**	**14.8 =**
Volatile Organic Constituents								
1,1,1,2-Tetrachloroethane	ug/l							
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	**0.35 J**	1 U	1 U	**1.9 =**	5 U	**1 =**
1,1-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
1,1-Dichloroethene	ug/l	1 U	**0.78 J**	1 U	1 U	**0.34 J**	5 U	1 U
1,1-Dichloropropene	ug/l							
1,2,3-Trichlorobenzene	ug/l							
1,2,3-Trichloropropane	ug/l							
1,2,4-Trichlorobenzene	ug/l							
1,2,4-Trimethylbenzene	ug/l							
1,2-Dibromo-3-chloropropane	ug/l							
1,2-Dibromoethane(EDB)	ug/l							
1,2-Dichlorobenzene	ug/l							
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
1,3,5-Trimethylbenzene	ug/l							
1,3-Dichlorobenzene	ug/l							
1,3-Dichloropropane	ug/l							
1,4-Dichlorobenzene	ug/l							
1-Chlorohexane	ug/l							
2,2-Dichloropropane	ug/l							
2-Butanone	ug/l	**3 =**	**12.5 =**	**3 J**	**126 =**	**44.6 =**	25 U	**3.8 J**
2-Chlorotoluene	ug/l							
2-Hexanone	ug/l	2 U	5 U	5 U	5 U	**0.4 J**	25 U	5 U
4-Chlorotoluene	ug/l							
4-Isopropyltoluene	ug/l							
4-Methyl-2-pentanone	ug/l	2 U	5 U	5 U	5 U	2 U	25 U	5 U
Acetone	ug/l	**8.5 =**	**11.1 =**	**211 =**	**114 J**	**19.6 =**	50 U	**78.6 =**
Benzene	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Bromobenzene	ug/l							
Bromochloromethane	ug/l							
Bromodichloromethane	ug/l	1 U	1 U	**0.8 J**	1 U	1 U	5 U	**0.92 J**
Bromoform	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Bromomethane	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Carbon disulfide	ug/l	1 U	1 U	**4.5 =**	1 U	1 U	5 U	**1.2 =**
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Chloroform	ug/l	1 U	**1 =**	**4.6 =**	1 U	1 U	5 U	**3.7 =**
Chloromethane	ug/l	1 U	1 U	**0.44 J**	1 U	1 U	5 U	1 U
cis-1,2-Dichloroethene	ug/l	**39.8 =**	**262 =**	1 U	**3.5 =**	**117 =**	**486 =**	**26.7 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Dibromochloromethane	ug/l	1 U	**0.43 J**	1 U	1 U	1 U	5 U	1 U
Dibromomethane	ug/l							
Dichlorodifluoromethane	ug/l							
Ethylbenzene	ug/l	1 U	1 U	1 U	1 U	**0.16 J**	5 U	1 U
Hexachlorobutadiene	ug/l							
Isopropylbenzene (Cumene)	ug/l							
Methylene chloride	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
MTBE	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
n-Butylbenzene	ug/l							
n-Propylbenzene	ug/l							
Naphthalene	ug/l							
o-Xylene	ug/l							
p,m-Xylene	ug/l							
Xylene (total)	ug/l	3 U	2 U	2 U	3 U	3 U	10 U	2 U
sec-Butylbenzene	ug/l							
Styrene	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
tert-Butylbenzene	ug/l							
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Toluene	ug/l	**0.22 J**	**0.39 J**	1 U	**0.24 J**	**0.21 J**	5 U	1 U
trans-1,2-Dichloroethene	ug/l	**0.26 J**	**9.7 =**	1 U	1 U	**0.58 J**	**15 =**	**0.68 J**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Trichloroethene	ug/l	**9.9 =**	**552 =**	**1.7 =**	**2.1 =**	**412 =**	**1460 =**	**85 =**
Trichlorofluoromethane	ug/l							
Vinyl chloride	ug/l	1 U	**0.78 J**	1 U	1 U	**0.65 J**	5 U	**0.84 J**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
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	StationID:	VD-46	VD-46	VD-47	VD-47	VD-47	VD-47
	Client Sample ID:	1717VD46Q103	1717VD46Q203	17VD47Q302	717VD47Q402	1717VD47Q103	1717VD47Q203
	Lab Sample ID:	230115502	230509309	220703310	221008611	230112913	230508301
	Date Collected:	01/23/2003	06/05/2003	07/11/2002	10/09/2002	01/21/2003	06/04/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**19.2 =**	**19.3 =**	**23.2 =**	**26.4 =**	**28.1 =**	**17.7 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l						
1,1,1-Trichloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	**1.2 =**	**0.58 J**	5 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	**0.7 J**	1 U	5 U	1 U	1 U	1 U
1,1-Dichloropropene	ug/l						
1,2,3-Trichlorobenzene	ug/l						
1,2,3-Trichloropropane	ug/l						
1,2,4-Trichlorobenzene	ug/l						
1,2,4-Trimethylbenzene	ug/l						
1,2-Dibromo-3-chloropropane	ug/l						
1,2-Dibromoethane(EDB)	ug/l						
1,2-Dichlorobenzene	ug/l						
1,2-Dichloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l						
1,3-Dichlorobenzene	ug/l						
1,3-Dichloropropane	ug/l						
1,4-Dichlorobenzene	ug/l						
1-Chlorohexane	ug/l						
2,2-Dichloropropane	ug/l						
2-Butanone	ug/l	4 U	**4 =**	25 U	**8.6 =**	**171 =**	**99.2 =**
2-Chlorotoluene	ug/l						
2-Hexanone	ug/l	4 U	2 U	25 U	5 U	5 U	2 U
4-Chlorotoluene	ug/l						
4-Isopropyltoluene	ug/l						
4-Methyl-2-pentanone	ug/l	4 U	2 U	25 U	5 U	5 U	2 U
Acetone	ug/l	**17.7 =**	4 U	50 U	**396 =**	**354 =**	**76.5 =**
Benzene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Bromobenzene	ug/l						
Bromochloromethane	ug/l						
Bromodichloromethane	ug/l	1 U	1 U	5 U	**0.76 J**	1 U	1 U
Bromoform	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Bromomethane	ug/l	1 UR	1 U	5 U	1 U	1 U	1 U
Carbon disulfide	ug/l	1 U	1 U	5 U	**11.2 =**	1 U	1 U
Carbon tetrachloride	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Chloroform	ug/l	**0.67 J**	1 U	5 U	**4.3 =**	1 U	1 U
Chloromethane	ug/l	1 UJ	1 U	5 U	**0.45 J**	1 U	1 U
cis-1,2-Dichloroethene	ug/l	**115 =**	**60.5 =**	**652 =**	**0.53 J**	**2 =**	**1.5 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Dibromomethane	ug/l						
Dichlorodifluoromethane	ug/l						
Ethylbenzene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l						
Isopropylbenzene (Cumene)	ug/l						
Methylene chloride	ug/l	1 U	1 U	5 U	1 U	**0.74 J**	1 U
MTBE	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
n-Butylbenzene	ug/l						
n-Propylbenzene	ug/l						
Naphthalene	ug/l						
o-Xylene	ug/l						
p,m-Xylene	ug/l						
Xylene (total)	ug/l	3 U	3 U	10 U	2 U	3 U	3 U
sec-Butylbenzene	ug/l						
Styrene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l						
Tetrachloroethene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Toluene	ug/l	**0.16 J**	**0.28 J**	**1.8 J**	1 U	**0.12 J**	1 U
trans-1,2-Dichloroethene	ug/l	**3.8 =**	1 U	**21.8 =**	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Trichloroethene	ug/l	**319 =**	**0.61 J**	**1680 =**	**3.2 =**	**0.62 J**	**0.28 J**
Trichlorofluoromethane	ug/l						
Vinyl chloride	ug/l	**1.9 =**	**0.4 J**	**2.8 J**	1 U	1 U	1 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
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StationID:		VD-48	VD-48	VD-48	VD-48	VD-50	VD-50	VD-50
Client Sample ID:		1717VD48Q3	17VD48Q402	1717VD48Q103	1717VD48Q203	1717VD50Q3	17VD50Q402	1717VD50Q103
Lab Sample ID:		220700806	221007411	230113604	230509307	220700802	221007413	230113608
Date Collected:		07/10/2002	10/08/2002	01/22/2003	06/05/2003	07/10/2002	10/08/2002	01/22/2003
Parameter	**Units**							
Miscellaneous Parameters								
Chloride	mg/l	**23.7 =**	**31.9 =**	**34.7 =**	**42.2 =**	**18.2 =**	**17.4 =**	**19.8 =**
Volatile Organic Constituents								
1,1,1,2-Tetrachloroethane	ug/l							
1,1,1-Trichloroethane	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	**3.3 J**	**1 =**	1 U	**1.6 =**	**0.79 J**	**1.2 =**	**1.5 =**
1,1-Dichloroethane	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	10 U	1 U	1 U	1 U	1 U	**2.9 =**	**3.6 =**
1,1-Dichloropropene	ug/l							
1,2,3-Trichlorobenzene	ug/l							
1,2,3-Trichloropropane	ug/l							
1,2,4-Trichlorobenzene	ug/l							
1,2,4-Trimethylbenzene	ug/l							
1,2-Dibromo-3-chloropropane	ug/l							
1,2-Dibromoethane(EDB)	ug/l							
1,2-Dichlorobenzene	ug/l							
1,2-Dichloroethane	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l							
1,3-Dichlorobenzene	ug/l							
1,3-Dichloropropane	ug/l							
1,4-Dichlorobenzene	ug/l							
1-Chlorohexane	ug/l							
2,2-Dichloropropane	ug/l							
2-Butanone	ug/l	50 U	**3.7 J**	**7.2 =**	**4.1 =**	**15.2 =**	5 U	**1.2 J**
2-Chlorotoluene	ug/l							
2-Hexanone	ug/l	50 U	5 U	4 U	2 U	5 U	5 U	4 U
4-Chlorotoluene	ug/l							
4-Isopropyltoluene	ug/l							
4-Methyl-2-pentanone	ug/l	50 U	5 U	4 U	2 U	5 U	5 U	4 U
Acetone	ug/l	100 U	**307 =**	**133 =**	**38.5 =**	**287 =**	**29 =**	**6.6 =**
Benzene	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/l							
Bromochloromethane	ug/l							
Bromodichloromethane	ug/l	10 U	**0.91 J**	1 U	1 U	**0.71 J**	1 U	1 U
Bromoform	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	ug/l	10 U	1 U	1 U	1 U	**15.9 =**	1 U	1 U
Carbon tetrachloride	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	10 U	**4 =**	1 U	**0.18 J**	**1.4 =**	**1.5 =**	**0.66 J**
Chloromethane	ug/l	10 U	**0.55 J**	1 U	1 U	**0.38 J**	1 U	1 U
cis-1,2-Dichloroethene	ug/l	**368 =**	**5 =**	**1.1 =**	**77.3 =**	**10.3 =**	**203 =**	**271 =**
cis-1,3-Dichloropropene	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	10 U	1 U	1 U	1 U	**0.52 J**	1 U	1 U
Dibromomethane	ug/l							
Dichlorodifluoromethane	ug/l							
Ethylbenzene	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l							
Isopropylbenzene (Cumene)	ug/l							
Methylene chloride	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	ug/l							
n-Propylbenzene	ug/l							
Naphthalene	ug/l							
o-Xylene	ug/l							
p,m-Xylene	ug/l							
Xylene (total)	ug/l	20 U	2 U	3 U	3 U	2 U	2 U	3 U
sec-Butylbenzene	ug/l							
Styrene	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l							
Tetrachloroethene	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	10 U	1 U	1 U	**0.3 J**	1 U	**0.63 J**	**0.69 J**
trans-1,2-Dichloroethene	ug/l	**11.1 =**	1 U	1 U	**1 =**	**0.31 J**	**6 =**	**7.3 =**
trans-1,3-Dichloropropene	ug/l	10 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**8810 =**	**58.4 =**	**12.3 =**	**221 =**	**127 =**	**1610 =**	**2770 =**
Trichlorofluoromethane	ug/l							
Vinyl chloride	ug/l	10 U	1 U	1 U	**0.54 J**	1 U	**6.6 =**	**4.2 =**

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StationID:		VD-50	VD-51	VD-52	VD-52	VD-52	VD-52
Client Sample ID:		1717VD50Q203	1717VD51Q203	017-17-VD52-Q1-02	17-17VD52Q202	17VD52Q302	717VD52Q402
Lab Sample ID:		230508311	230510901	220214406	220306606	220703209	221010415
Date Collected:		06/04/2003	06/06/2003	03/01/2002	04/11/2002	07/11/2002	10/10/2002
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**21.9 =**	**11.8 =**	**14.2 =**	**10.5 =**	**11.4 =**	**14.5 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l			1 U	1 U		
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	1 U	1 U	**0.94 J**	1 U	1 U	**0.47 J**
1,1-Dichloropropene	ug/l			1 U	1 U		
1,2,3-Trichlorobenzene	ug/l			1 U	1 U		
1,2,3-Trichloropropane	ug/l			1 U	1 U		
1,2,4-Trichlorobenzene	ug/l			1 U	1 U		
1,2,4-Trimethylbenzene	ug/l			1 U	1 U		
1,2-Dibromo-3-chloropropane	ug/l			1 U	1 U		
1,2-Dibromoethane(EDB)	ug/l			1 U	1 U		
1,2-Dichlorobenzene	ug/l			1 U	1 U		
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l			1 U	1 U		
1,3-Dichlorobenzene	ug/l			1 U	1 U		
1,3-Dichloropropane	ug/l			1 U	1 U		
1,4-Dichlorobenzene	ug/l			1 U	1 U		
1-Chlorohexane	ug/l			1 U	1 U		
2,2-Dichloropropane	ug/l			1 U	1 U		
2-Butanone	ug/l	**4.7 =**	2 U			5 U	5 U
2-Chlorotoluene	ug/l			1 U	1 U		
2-Hexanone	ug/l	2 U	2 U			5 U	5 U
4-Chlorotoluene	ug/l			1 U	1 U		
4-Isopropyltoluene	ug/l			1 U	1 U		
4-Methyl-2-pentanone	ug/l	2 U	2 U			5 U	5 U
Acetone	ug/l	**10.2 =**	4 U			10 U	10 U
Benzene	ug/l	**0.32 J**	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/l			1 U	1 U		
Bromochloromethane	ug/l			1 U	1 U		
Bromodichloromethane	ug/l	1 U	1 U	1 U	**0.8 J**	1 U	1 U
Bromoform	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	ug/l	1 U	**8.7 =**			**33.6 =**	**28.3 =**
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	1 U	1 U	1 U	**1.8 =**	1 U	1 U
Chloromethane	ug/l	1 U	1 U	1 U	**0.69 J**	1 U	1 U
cis-1,2-Dichloroethene	ug/l	**16.8 =**	**42.7 =**	**148 =**	**8.5 =**	**55.3 =**	**94.4 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	1 U	1 U	**0.37 J**	1 U	1 U
Dibromomethane	ug/l			1 U	1 U		
Dichlorodifluoromethane	ug/l			1 U	1 U		
Ethylbenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l			1 U	1 U		
Isopropylbenzene (Cumene)	ug/l			1 U	1 U		
Methylene chloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l	1 U	1 U			1 U	1 U
n-Butylbenzene	ug/l			1 U	1 U		
n-Propylbenzene	ug/l			1 U	1 U		
Naphthalene	ug/l			**0.78 J**	1 U		
o-Xylene	ug/l			1 U	1 U		
p,m-Xylene	ug/l			2 U	2 U		
Xylene (total)	ug/l	3 U	3 U			2 U	2 U
sec-Butylbenzene	ug/l			1 U	1 U		
Styrene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l			1 U	1 U		
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	**0.68 J**	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/l	1 U	**4.1 =**	**5.7 =**	1 U	**2.3 =**	**4 =**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**2.2 =**	**18.8 =**	**849 =**	**29.7 =**	**218 =**	**225 =**
Trichlorofluoromethane	ug/l			1 U	1 U		
Vinyl chloride	ug/l	1 U	**0.44 J**	**3.6 =**	1 U	**1.2 =**	**2.2 =**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

StationID:		VD-52	VD-53	VD-53	VD-53	VD-53	VD-53
Client Sample ID:		1717VD52Q103	017-17-VD53-Q1-02	17-17VD53Q202	17VD53Q302	717VD53Q402	1717VD53Q103
Lab Sample ID:		230115511	220214407	220306610	220703203	221010414	230118001
Date Collected:		01/23/2003	03/01/2002	04/11/2002	07/11/2002	10/10/2002	01/24/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**13.2 =**	**15.9 =**	**13.5 =**	**34.8 =**	**28.7 =**	**60.9 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l		1 U	1 U			
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	**0.35 J**	**25.3 =**	1 U	**2.3 =**
1,1-Dichloroethane	ug/l	1 U	**1.5 =**	1 U	10 U	1 U	1 U
1,1-Dichloroethene	ug/l	**0.33 J**	**13.3 =**	1 U	**6.2 J**	1 U	**0.31 J**
1,1-Dichloropropene	ug/l		1 U	1 U			
1,2,3-Trichlorobenzene	ug/l		1 U	1 U			
1,2,3-Trichloropropane	ug/l		1 U	1 U			
1,2,4-Trichlorobenzene	ug/l		1 U	1 U			
1,2,4-Trimethylbenzene	ug/l		1 U	1 U			
1,2-Dibromo-3-chloropropane	ug/l		1 U	1 U			
1,2-Dibromoethane(EDB)	ug/l		1 U	1 U			
1,2-Dichlorobenzene	ug/l		1 U	1 U			
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	10 U	1 U	**0.87 J**
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l		1 U	1 U			
1,3-Dichlorobenzene	ug/l		1 U	1 U			
1,3-Dichloropropane	ug/l		1 U	1 U			
1,4-Dichlorobenzene	ug/l		1 U	1 U			
1-Chlorohexane	ug/l		1 U	1 U			
2,2-Dichloropropane	ug/l		1 U	1 U			
2-Butanone	ug/l	4 U			50 U	**3.4 J**	**18.6 =**
2-Chlorotoluene	ug/l		1 U	1 U			
2-Hexanone	ug/l	4 U			50 U	5 U	4 U
4-Chlorotoluene	ug/l		1 U	1 U			
4-Isopropyltoluene	ug/l		1 U	1 U			
4-Methyl-2-pentanone	ug/l	4 U			50 U	5 U	4 U
Acetone	ug/l	4 U			100 U	**188 =**	**19 =**
Benzene	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
Bromobenzene	ug/l		1 U	1 U			
Bromochloromethane	ug/l		1 U	1 U			
Bromodichloromethane	ug/l	1 U	1 U	**1.8 =**	10 U	**0.79 J**	1 U
Bromoform	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
Bromomethane	ug/l	1 UR	1 U	1 U	10 U	1 U	1 UR
Carbon disulfide	ug/l	**6 =**			**15.2 =**	**2.6 =**	1 U
Carbon tetrachloride	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
Chloroform	ug/l	1 U	1 U	**3.2 =**	**2.5 J**	**4.2 =**	**0.15 J**
Chloromethane	ug/l	1 UJ	1 U	**0.64 J**	10 U	1 U	1 UJ
cis-1,2-Dichloroethene	ug/l	**48.1 =**	**796 =**	**28.3 =**	**620 =**	1 U	**60.3 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	1 U	**0.92 J**	10 U	1 U	1 U
Dibromomethane	ug/l		1 U	1 U			
Dichlorodifluoromethane	ug/l		1 U	1 U			
Ethylbenzene	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
Hexachlorobutadiene	ug/l		1 U	1 U			
Isopropylbenzene (Cumene)	ug/l		1 U	1 U			
Methylene chloride	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
MTBE	ug/l	1 U			10 U	1 U	1 U
n-Butylbenzene	ug/l		1 U	1 U			
n-Propylbenzene	ug/l		1 U	1 U			
Naphthalene	ug/l		**1.4 =**	1 U			
o-Xylene	ug/l		1 U	1 U			
p,m-Xylene	ug/l		**0.5 J**	2 U			
Xylene (total)	ug/l	3 U			20 U	2 U	3 U
sec-Butylbenzene	ug/l		1 U	1 U			
Styrene	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
tert-Butylbenzene	ug/l		1 U	1 U			
Tetrachloroethene	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
Toluene	ug/l	1 U	**0.92 J**	1 U	10 U	1 U	1 U
trans-1,2-Dichloroethene	ug/l	**1.6 =**	**20 =**	**0.52 J**	**15 =**	1 U	1 U
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	10 U	1 U	1 U
Trichloroethene	ug/l	**49.8 =**	**1090 =**	**71.2 =**	**35600 =**	**28.1 =**	**24.6 =**
Trichlorofluoromethane	ug/l		1 U	1 U			
Vinyl chloride	ug/l	**1.1 =**	**4.6 =**	1 U	10 U	1 U	**1.1 =**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	VD-55	VD-55	VD-55	VD-55	VD-55	VD-55
	Client Sample ID:	017-17-VD55-Q1-02	17-17VD55Q202	17VD55Q302	717VD55Q402	1717VD55Q103	1717VD55Q203
	Lab Sample ID:	220214408	220306607	220703206	221011802	230118004	230510906
	Date Collected:	03/01/2002	04/11/2002	07/11/2002	10/11/2002	01/24/2003	06/06/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**23.5 =**	**19.7 =**	**38.7 =**	**27.2 =**	**30.7 =**	
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l	10 U	1 U				
1,1,1-Trichloroethane	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	**21.2 =**	1 U	**28.2 J**	1 U	**0.53 J**	**0.41 J**
1,1-Dichloroethane	ug/l	**28 =**	1 U	50 U	1 U	1 U	**0.32 J**
1,1-Dichloroethene	ug/l	**210 =**	1 U	**29.1 J**	1 U	1 U	1 U
1,1-Dichloropropene	ug/l	10 U	1 U				
1,2,3-Trichlorobenzene	ug/l	10 U	1 U				
1,2,3-Trichloropropane	ug/l	10 U	1 U				
1,2,4-Trichlorobenzene	ug/l	10 U	1 U				
1,2,4-Trimethylbenzene	ug/l	10 U	1 U				
1,2-Dibromo-3-chloropropane	ug/l	10 U	1 U				
1,2-Dibromoethane(EDB)	ug/l	10 U	1 U				
1,2-Dichlorobenzene	ug/l	10 U	1 U				
1,2-Dichloroethane	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l	10 U	1 U				
1,3-Dichlorobenzene	ug/l	10 U	1 U				
1,3-Dichloropropane	ug/l	10 U	1 U				
1,4-Dichlorobenzene	ug/l	10 U	1 U				
1-Chlorohexane	ug/l	10 U	1 U				
2,2-Dichloropropane	ug/l	10 U	1 U				
2-Butanone	ug/l			250 U	**4.1 J**	**121 =**	**131 =**
2-Chlorotoluene	ug/l	10 U	1 U				
2-Hexanone	ug/l			250 U	5 U	4 U	2 U
4-Chlorotoluene	ug/l	10 U	1 U				
4-Isopropyltoluene	ug/l	10 U	1 U				
4-Methyl-2-pentanone	ug/l			250 U	5 U	4 U	2 U
Acetone	ug/l			500 U	**165 =**	**279 =**	**131 =**
Benzene	ug/l	10 U	1 U	50 U	1 U	**0.22 J**	1 U
Bromobenzene	ug/l	10 U	1 U				
Bromochloromethane	ug/l	10 U	1 U				
Bromodichloromethane	ug/l	10 U	**0.69 J**	50 U	**0.46 J**	1 U	1 U
Bromoform	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
Bromomethane	ug/l	10 U	1 U	50 U	1 U	1 UR	1 U
Carbon disulfide	ug/l			**181 =**	**1.4 =**	**0.69 J**	1 U
Carbon tetrachloride	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
Chlorobenzene	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
Chloroethane	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
Chloroform	ug/l	10 U	**1.8 =**	50 U	**1.6 =**	**0.3 J**	1 U
Chloromethane	ug/l	10 U	1 U	50 U	1 U	1 UJ	1 U
cis-1,2-Dichloroethene	ug/l	**5570 =**	**1 =**	**2180 =**	**0.7 J**	**21.4 =**	**52.2 =**
cis-1,3-Dichloropropene	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	10 U	**0.4 J**	50 U	1 U	1 U	1 U
Dibromomethane	ug/l	10 U	1 U				
Dichlorodifluoromethane	ug/l	10 U	1 U				
Ethylbenzene	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l	10 U	1 U				
Isopropylbenzene (Cumene)	ug/l	10 U	1 U				
Methylene chloride	ug/l	**2 J**	1 U	50 U	1 U	1 U	1 U
MTBE	ug/l			50 U	1 U	1 U	1 U
n-Butylbenzene	ug/l	10 U	1 U				
n-Propylbenzene	ug/l	10 U	1 U				
Naphthalene	ug/l	10 U	1 U				
o-Xylene	ug/l	10 U	1 U				
p,m-Xylene	ug/l	20 U	2 U				
Xylene (total)	ug/l			100 U	2 U	3 U	3 U
sec-Butylbenzene	ug/l	10 U	1 U				
Styrene	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l	10 U	1 U				
Tetrachloroethene	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
Toluene	ug/l	**2.4 J**	1 U	50 U	1 U	**0.22 J**	**0.15 J**
trans-1,2-Dichloroethene	ug/l	**77.7 =**	1 U	**33.5 J**	1 U	**0.21 J**	1 U
trans-1,3-Dichloropropene	ug/l	10 U	1 U	50 U	1 U	1 U	1 U
Trichloroethene	ug/l	**67200 =**	**13.6 =**	**38200 =**	**21.7 =**	**77.3 =**	**6.9 =**
Trichlorofluoromethane	ug/l	10 U	1 U				
Vinyl chloride	ug/l	**186 =**	1 U	**27.5 J**	1 U	1 U	**1.2 =**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

StationID:		VD-57	VD-57	VD-57	VD-57	VD-57	VD-57
Client Sample ID:		017-17-VD57-Q1-02	17-17VD57Q202	17VD57Q302	717VD57Q402	1717VD57Q103	1717VD57Q203
Lab Sample ID:		220214409	220306608	220703207	221011803	230118005	230510907
Date Collected:		03/01/2002	04/11/2002	07/11/2002	10/11/2002	01/24/2003	06/06/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**27.1 =**	**18.4 =**	**25.6 =**	**25.7 =**	**30 =**	**24.1 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l	1 U	1 U				
1,1,1-Trichloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	**6.1 =**	1 U	**6.1 =**	1 U	1 U	1 U
1,1-Dichloroethane	ug/l	**86.9 =**	1 U	**50 =**	1 U	**0.81 J**	**7.6 =**
1,1-Dichloroethene	ug/l	**700 =**	1 U	**57.2 =**	1 U	**0.61 J**	1 U
1,1-Dichloropropene	ug/l	1 U	1 U				
1,2,3-Trichlorobenzene	ug/l	1 U	1 U				
1,2,3-Trichloropropane	ug/l	1 U	1 U				
1,2,4-Trichlorobenzene	ug/l	1 U	1 U				
1,2,4-Trimethylbenzene	ug/l	**0.58 J**	1 U				
1,2-Dibromo-3-chloropropane	ug/l	1 U	1 U				
1,2-Dibromoethane(EDB)	ug/l	1 U	1 U				
1,2-Dichlorobenzene	ug/l	1 U	1 U				
1,2-Dichloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l	**0.22 J**	1 U				
1,3-Dichlorobenzene	ug/l	1 U	1 U				
1,3-Dichloropropane	ug/l	1 U	1 U				
1,4-Dichlorobenzene	ug/l	1 U	1 U				
1-Chlorohexane	ug/l	1 U	1 U				
2,2-Dichloropropane	ug/l	1 U	1 U				
2-Butanone	ug/l			**14.9 J**	**8.4 =**	**8.9 =**	**7.6 =**
2-Chlorotoluene	ug/l	1 U	1 U				
2-Hexanone	ug/l			25 U	5 U	4 U	2 U
4-Chlorotoluene	ug/l	1 U	1 U				
4-Isopropyltoluene	ug/l	1 U	1 U				
4-Methyl-2-pentanone	ug/l			25 U	5 U	4 U	2 U
Acetone	ug/l			**284 =**	**779 =**	**349 =**	**53.9 =**
Benzene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Bromobenzene	ug/l	1 U	1 U				
Bromochloromethane	ug/l	1 U	1 U				
Bromodichloromethane	ug/l	1 U	**0.82 J**	5 U	**0.96 J**	1 U	1 U
Bromoform	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Bromomethane	ug/l	1 U	1 U	5 U	1 U	1 UR	1 U
Carbon disulfide	ug/l			**183 =**	**4.9 =**	1 U	1 U
Carbon tetrachloride	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Chloroform	ug/l	1 U	**1.7 =**	**1.1 J**	**2.7 =**	**0.53 J**	1 U
Chloromethane	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
cis-1,2-Dichloroethene	ug/l	**10200 =**	**0.24 J**	**4190 =**	**3.7 =**	**28.4 =**	**80.4 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	**0.53 J**	5 U	1 U	1 U	1 U
Dibromomethane	ug/l	1 U	1 U				
Dichlorodifluoromethane	ug/l	1 U	1 U				
Ethylbenzene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l	1 U	1 U				
Isopropylbenzene (Cumene)	ug/l	1 U	1 U				
Methylene chloride	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
MTBE	ug/l			5 U	1 U	1 U	1 U
n-Butylbenzene	ug/l	1 U	1 U				
n-Propylbenzene	ug/l	1 U	1 U				
Naphthalene	ug/l	**0.38 J**	1 U				
o-Xylene	ug/l	**0.24 J**	1 U				
p,m-Xylene	ug/l	**0.75 J**	2 U				
Xylene (total)	ug/l			10 U	2 U	3 U	3 U
sec-Butylbenzene	ug/l	1 U	1 U				
Styrene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l	1 U	1 U				
Tetrachloroethene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Toluene	ug/l	**3.4 =**	1 U	5 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/l	**95.1 =**	1 U	**67.2 =**	1 U	**0.2 J**	**0.27 J**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	5 U	1 U	1 U	1 U
Trichloroethene	ug/l	**6450 =**	1 U	**3410 =**	**2.3 =**	**22.5 =**	**3.8 =**
Trichlorofluoromethane	ug/l	1 U	1 U				
Vinyl chloride	ug/l	**291 =**	1 U	**32.9 =**	1 U	1 U	**0.94 J**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
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NTC Orlando, Orlando, Florida

StationID:		VD-58	VD-58	VD-58	VD-58	VD-58	VD-58
Client Sample ID:		017-17-VD58-Q1-02	17-17VD58Q202	17VD58Q302	717VD58Q402	1717VD58Q103	1717VD58Q203
Lab Sample ID:		220214405	220306605	220703210	221011801	230115510	230510902
Date Collected:		03/01/2002	04/11/2002	07/11/2002	10/11/2002	01/23/2003	06/06/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**9.53 =**	**7.95 =**	**10.1 =**	**9.74 =**	**14.1 =**	**18.7 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l	1 U	1 U				
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	**0.38 J**
1,1-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	1 U	1 U	1 U	1 U	**1.4 =**	**6.6 =**
1,1-Dichloropropene	ug/l	1 U	1 U				
1,2,3-Trichlorobenzene	ug/l	1 U	1 U				
1,2,3-Trichloropropane	ug/l	1 U	1 U				
1,2,4-Trichlorobenzene	ug/l	1 U	1 U				
1,2,4-Trimethylbenzene	ug/l	1 U	1 U				
1,2-Dibromo-3-chloropropane	ug/l	1 U	1 U				
1,2-Dibromoethane(EDB)	ug/l	1 U	1 U				
1,2-Dichlorobenzene	ug/l	1 U	1 U				
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l	1 U	1 U				
1,3-Dichlorobenzene	ug/l	1 U	1 U				
1,3-Dichloropropane	ug/l	1 U	1 U				
1,4-Dichlorobenzene	ug/l	1 U	1 U				
1-Chlorohexane	ug/l	1 U	1 U				
2,2-Dichloropropane	ug/l	1 U	1 U				
2-Butanone	ug/l			**4.4 J**	5 U	4 U	2 U
2-Chlorotoluene	ug/l	1 U	1 U				
2-Hexanone	ug/l			5 U	5 U	4 U	2 U
4-Chlorotoluene	ug/l	1 U	1 U				
4-Isopropyltoluene	ug/l	1 U	1 U				
4-Methyl-2-pentanone	ug/l			5 U	5 U	4 U	2 U
Acetone	ug/l			**47.4 =**	10 U	4 U	4 U
Benzene	ug/l	1 U	1 U	1 U	1 U	1 U	**0.23 J**
Bromobenzene	ug/l	1 U	1 U				
Bromochloromethane	ug/l	1 U	1 U				
Bromodichloromethane	ug/l	1 U	**0.56 J**	1 U	1 U	1 U	1 U
Bromoform	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	1 U	1 U	1 U	1 U	1 UR	1 U
Carbon disulfide	ug/l			**48.4 =**	**31.8 =**	**16.6 =**	**63.2 =**
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	1 U	**1.4 =**	**0.19 J**	**0.18 J**	1 U	1 U
Chloromethane	ug/l	1 U	1 U	1 U	1 U	1 UJ	1 U
cis-1,2-Dichloroethene	ug/l	**25.6 =**	**1.1 =**	**7.2 =**	**15 =**	**132 =**	**495 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	**0.4 J**	1 U	1 U	1 U	1 U
Dibromomethane	ug/l	1 U	1 U				
Dichlorodifluoromethane	ug/l	1 U	1 U				
Ethylbenzene	ug/l	1 U	1 U	1 U	1 U	1 U	**0.23 J**
Hexachlorobutadiene	ug/l	1 U	1 U				
Isopropylbenzene (Cumene)	ug/l	1 U	1 U				
Methylene chloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l			1 U	1 U	1 U	1 U
n-Butylbenzene	ug/l	1 U	1 U				
n-Propylbenzene	ug/l	1 U	1 U				
Naphthalene	ug/l	1 U	1 U				
o-Xylene	ug/l	1 U	1 U				
p,m-Xylene	ug/l	2 U	2 U				
Xylene (total)	ug/l			2 U	2 U	3 U	**0.68 J**
sec-Butylbenzene	ug/l	1 U	1 U				
Styrene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l	1 U	1 U				
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	1 U	1 U	1 U	1 U	1 U	**0.67 J**
trans-1,2-Dichloroethene	ug/l	**1.2 =**	1 U	**0.41 J**	**0.74 J**	**7.1 =**	**25.9 =**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**323 =**	**4.8 =**	**51.2 =**	**99.8 =**	**297 =**	**1620 =**
Trichlorofluoromethane	ug/l	1 U	1 U				
Vinyl chloride	ug/l	**0.55 J**	1 U	1 U	1 U	**1.8 =**	**17.2 =**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	VD-60	VD-60	VD-60	VD-60	VD-60	VD-60
	Client Sample ID:	017-17-VD60-Q1-02	17-17VD60Q202	1717VD60Q3	717VD60Q402	1717VD60Q103	1717VD60Q203
	Lab Sample ID:	220212903	220304702	220700818	221005704	230112905	230508313
	Date Collected:	02/28/2002	04/09/2002	07/10/2002	10/07/2002	01/21/2003	06/04/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**19 =**	**11.3 =**	**14.6 =**	**11.5 =**	**13.8 =**	**17 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l	1 U	1 U				
1,1,1-Trichloroethane	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
1,1-Dichloroethane	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
1,1-Dichloroethene	ug/l	**2.6 =**	1 U	5 U	1 U	**0.96 J**	1 U
1,1-Dichloropropene	ug/l	1 U	1 U				
1,2,3-Trichlorobenzene	ug/l	1 U	1 U				
1,2,3-Trichloropropane	ug/l	1 U	1 U				
1,2,4-Trichlorobenzene	ug/l	1 U	1 U				
1,2,4-Trimethylbenzene	ug/l	**1.4 =**	1 U				
1,2-Dibromo-3-chloropropane	ug/l	1 U	1 U				
1,2-Dibromoethane(EDB)	ug/l	1 U	1 U				
1,2-Dichlorobenzene	ug/l	1 U	1 U				
1,2-Dichloroethane	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
1,3,5-Trimethylbenzene	ug/l	**0.5 J**	1 U				
1,3-Dichlorobenzene	ug/l	1 U	1 U				
1,3-Dichloropropane	ug/l	1 U	1 U				
1,4-Dichlorobenzene	ug/l	1 U	1 U				
1-Chlorohexane	ug/l	1 U	1 U				
2,2-Dichloropropane	ug/l	1 U	1 U				
2-Butanone	ug/l			25 U	**5.2 =**	5 UJ	**117 =**
2-Chlorotoluene	ug/l	1 U	1 U				
2-Hexanone	ug/l			25 U	5 U	5 UJ	2 U
4-Chlorotoluene	ug/l	1 U	1 U				
4-Isopropyltoluene	ug/l	1 U	1 U				
4-Methyl-2-pentanone	ug/l			25 U	5 U	5 UJ	2 U
Acetone	ug/l			50 U	**219 =**	**8.6 J**	**12.6 =**
Benzene	ug/l	**0.23 J**	1 U	5 U	1 U	1 UJ	1 U
Bromobenzene	ug/l	1 U	1 U				
Bromochloromethane	ug/l	1 U	1 U				
Bromodichloromethane	ug/l	1 U	**1 =**	5 U	1 U	1 UJ	1 U
Bromoform	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
Bromomethane	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
Carbon disulfide	ug/l			**7.6 =**	**16.6 =**	1 UJ	1 U
Carbon tetrachloride	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
Chlorobenzene	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
Chloroethane	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
Chloroform	ug/l	**0.32 J**	**2 =**	5 U	**1.6 =**	**0.96 J**	1 U
Chloromethane	ug/l	1 U	**1.4 =**	5 U	1 U	1 UJ	1 U
cis-1,2-Dichloroethene	ug/l	**778 =**	**13.3 =**	**275 =**	**48.3 =**	**180 =**	**83.9 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
Dibromochloromethane	ug/l	1 U	**0.6 J**	5 U	1 U	1 UJ	1 U
Dibromomethane	ug/l	1 U	1 U				
Dichlorodifluoromethane	ug/l	1 U	1 U				
Ethylbenzene	ug/l	**0.55 J**	1 U	5 U	1 U	1 UJ	1 U
Hexachlorobutadiene	ug/l	1 U	1 U				
Isopropylbenzene (Cumene)	ug/l	1 U	1 U				
Methylene chloride	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
MTBE	ug/l			5 U	1 U	1 UJ	1 U
n-Butylbenzene	ug/l	1 U	1 U				
n-Propylbenzene	ug/l	1 U	1 U				
Naphthalene	ug/l	**0.48 J**	1 U				
o-Xylene	ug/l	**0.73 J**	1 U				
p,m-Xylene	ug/l	**1.9 J**	2 U				
Xylene (total)	ug/l			10 U	2 U	3 UJ	3 U
sec-Butylbenzene	ug/l	1 U	1 U				
Styrene	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
tert-Butylbenzene	ug/l	1 U	1 U				
Tetrachloroethene	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
Toluene	ug/l	**8.9 =**	1 U	**1.3 J**	1 U	**0.85 J**	**0.49 J**
trans-1,2-Dichloroethene	ug/l	**21.2 =**	**0.43 J**	**9.1 =**	**1.6 =**	**9.7 J**	**0.15 J**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	5 U	1 U	1 UJ	1 U
Trichloroethene	ug/l	**3510 =**	**53.9 =**	**1820 =**	**192 =**	**882 =**	**5.5 =**
Trichlorofluoromethane	ug/l	1 U	1 U				
Vinyl chloride	ug/l	**9.6 =**	1 U	**2.1 J**	1 U	**1.8 J**	**0.27 J**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	VD-62	VD-62	VD-62	VD-62	VD-62	VD-62
	Client Sample ID:	017-17-VD62-Q1-02	17-17VD62Q202	17VD62Q302	717VD62Q402	1717VD62Q103	1717VD62Q203
	Lab Sample ID:	220214402	220305703	220604111	221010407	230115506	230509302
	Date Collected:	03/01/2002	04/10/2002	07/09/2002	10/10/2002	01/23/2003	06/05/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**25.7 =**	**14.7 =**	**31.3 =**	**21.7 =**	**22.6 =**	**24.1 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l	10 U	1 U				
1,1,1-Trichloroethane	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
1,1,2-Trichloroethane	ug/l	**10.2 =**	1 U	**3.7 =**	**3 =**	**2.9 J**	**3.2 J**
1,1-Dichloroethane	ug/l	**14.8 =**	1 U	**3.3 =**	**2.3 =**	**8.9 =**	**9.9 =**
1,1-Dichloroethene	ug/l	**74.6 =**	1 U	**7.9 =**	**2.2 =**	**10.2 =**	**7 =**
1,1-Dichloropropene	ug/l	10 U	1 U				
1,2,3-Trichlorobenzene	ug/l	10 U	1 U				
1,2,3-Trichloropropane	ug/l	10 U	1 U				
1,2,4-Trichlorobenzene	ug/l	10 U	1 U				
1,2,4-Trimethylbenzene	ug/l	10 U	1 U				
1,2-Dibromo-3-chloropropane	ug/l	10 U	1 U				
1,2-Dibromoethane(EDB)	ug/l	10 U	1 U				
1,2-Dichlorobenzene	ug/l	10 U	1 U				
1,2-Dichloroethane	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
1,2-Dichloropropane	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
1,3,5-Trimethylbenzene	ug/l	10 U	1 U				
1,3-Dichlorobenzene	ug/l	10 U	1 U				
1,3-Dichloropropane	ug/l	10 U	1 U				
1,4-Dichlorobenzene	ug/l	10 U	1 U				
1-Chlorohexane	ug/l	10 U	1 U				
2,2-Dichloropropane	ug/l	10 U	1 U				
2-Butanone	ug/l			5 U	**4.3 J**	20 U	10 U
2-Chlorotoluene	ug/l	10 U	1 U				
2-Hexanone	ug/l			5 U	5 U	20 U	10 U
4-Chlorotoluene	ug/l	10 U	1 U				
4-Isopropyltoluene	ug/l	10 U	1 U				
4-Methyl-2-pentanone	ug/l			5 U	5 U	20 U	10 U
Acetone	ug/l			**12.7 =**	**89.6 =**	20 U	20 U
Benzene	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
Bromobenzene	ug/l	10 U	1 U				
Bromochloromethane	ug/l	10 U	1 U				
Bromodichloromethane	ug/l	10 U	**1.2 =**	1 U	1 U	5 U	5 U
Bromoform	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
Bromomethane	ug/l	10 U	1 U	1 U	1 U	5 UR	5 U
Carbon disulfide	ug/l			**27.4 =**	**27.6 =**	**1.6 J**	5 U
Carbon tetrachloride	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
Chlorobenzene	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
Chloroethane	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
Chloroform	ug/l	10 U	**2.1 =**	**0.58 J**	**1.8 =**	5 U	5 U
Chloromethane	ug/l	10 U	**1 =**	1 U	1 U	5 UJ	5 U
cis-1,2-Dichloroethene	ug/l	**2700 =**	**199 =**	**1960 =**	**1280 =**	**1790 =**	**1120 =**
cis-1,3-Dichloropropene	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
Dibromochloromethane	ug/l	10 U	**0.85 J**	1 U	1 U	5 U	5 U
Dibromomethane	ug/l	10 U	1 U				
Dichlorodifluoromethane	ug/l	10 U	1 U				
Ethylbenzene	ug/l	10 U	1 U	**0.26 J**	1 U	5 U	5 U
Hexachlorobutadiene	ug/l	10 U	1 U				
Isopropylbenzene (Cumene)	ug/l	10 U	1 U				
Methylene chloride	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
MTBE	ug/l			1 U	1 U	5 U	5 U
n-Butylbenzene	ug/l	10 U	1 U				
n-Propylbenzene	ug/l	10 U	1 U				
Naphthalene	ug/l	10 U	1 U				
o-Xylene	ug/l	10 U	1 U				
p,m-Xylene	ug/l	20 U	2 U				
Xylene (total)	ug/l			**1.2 J**	2 U	15 U	15 U
sec-Butylbenzene	ug/l	10 U	1 U				
Styrene	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
tert-Butylbenzene	ug/l	10 U	1 U				
Tetrachloroethene	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
Toluene	ug/l	**7.2 J**	**0.26 J**	**4.4 =**	**3.8 =**	**2 J**	**1.2 J**
trans-1,2-Dichloroethene	ug/l	**60.3 =**	**4 =**	**42.9 =**	**22.2 =**	**40.6 =**	**19.3 =**
trans-1,3-Dichloropropene	ug/l	10 U	1 U	1 U	1 U	5 U	5 U
Trichloroethene	ug/l	**45100 =**	**149 =**	**14900 =**	**2260 =**	**7230 =**	**4870 =**
Trichlorofluoromethane	ug/l	10 U	1 U				
Vinyl chloride	ug/l	**26.6 =**	1 U	**5.4 =**	**23.8 =**	**11.7 =**	**3.6 J**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

StationID:		VD-64	VD-64	VD-64	VD-64	VD-64	VD-64
Client Sample ID:		017-17-VD64-Q1-02	17-17VD64Q202	17VD64Q302	717VD64Q402	1717VD64Q103	1717VD64Q203
Lab Sample ID:		220214403	220305702	220604112	221010406	230115507	230509301
Date Collected:		03/01/2002	04/10/2002	07/09/2002	10/10/2002	01/23/2003	06/05/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**28.4 =**	**20.5 =**	**27.6 =**	**26.1 =**	**23.7 =**	**9.89 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l	1 U	1 U				
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	**3.5 =**	1 U	**1.2 =**	1 U	**0.36 J**	**0.42 J**
1,1-Dichloroethane	ug/l	**16.7 =**	1 U	**6.3 =**	**0.59 J**	**1.2 =**	**2.5 =**
1,1-Dichloroethene	ug/l	**111 =**	1 U	**1.2 =**	1 U	1 U	**0.78 J**
1,1-Dichloropropene	ug/l	1 U	1 U				
1,2,3-Trichlorobenzene	ug/l	1 U	1 U				
1,2,3-Trichloropropane	ug/l	1 U	1 U				
1,2,4-Trichlorobenzene	ug/l	1 U	1 U				
1,2,4-Trimethylbenzene	ug/l	1 U	1 U				
1,2-Dibromo-3-chloropropane	ug/l	1 U	1 U				
1,2-Dibromoethane(EDB)	ug/l	1 U	1 U				
1,2-Dichlorobenzene	ug/l	1 U	1 U				
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l	1 U	1 U				
1,3-Dichlorobenzene	ug/l	1 U	1 U				
1,3-Dichloropropane	ug/l	1 U	1 U				
1,4-Dichlorobenzene	ug/l	1 U	1 U				
1-Chlorohexane	ug/l	1 U	1 U				
2,2-Dichloropropane	ug/l	1 U	1 U				
2-Butanone	ug/l			**4.5 J**	**14.5 =**	**94 =**	**2.9 =**
2-Chlorotoluene	ug/l	1 U	1 U				
2-Hexanone	ug/l			5 U	5 U	4 U	2 U
4-Chlorotoluene	ug/l	1 U	1 U				
4-Isopropyltoluene	ug/l	1 U	1 U				
4-Methyl-2-pentanone	ug/l			5 U	5 U	4 U	2 U
Acetone	ug/l			**100 =**	**967 =**	**364 =**	4 U
Benzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/l	1 U	1 U				
Bromochloromethane	ug/l	1 U	1 U				
Bromodichloromethane	ug/l	1 U	**1.2 =**	1 U	1 U	1 U	1 U
Bromoform	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	1 U	1 U	1 U	1 U	1 UR	1 U
Carbon disulfide	ug/l			**197 =**	**69 =**	**1.2 =**	**17.2 =**
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	1 U	**1.8 =**	**1.3 =**	**3.1 =**	**0.68 J**	**0.4 J**
Chloromethane	ug/l	1 U	**2.8 =**	**1.2 =**	**0.45 J**	1 UJ	1 U
cis-1,2-Dichloroethene	ug/l	**2700 =**	**11.5 =**	**745 =**	**20.6 =**	**60.6 =**	**137 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	**0.82 J**	1 U	1 U	1 U	1 U
Dibromomethane	ug/l	1 U	1 U				
Dichlorodifluoromethane	ug/l	1 U	1 U				
Ethylbenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l	1 U	1 U				
Isopropylbenzene (Cumene)	ug/l	1 U	1 U				
Methylene chloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l			1 U	1 U	1 U	1 U
n-Butylbenzene	ug/l	1 U	1 U				
n-Propylbenzene	ug/l	1 U	1 U				
Naphthalene	ug/l	1 U	1 U				
o-Xylene	ug/l	1 U	1 U				
p,m-Xylene	ug/l	2 U	2 U				
Xylene (total)	ug/l			2 U	2 U	3 U	3 U
sec-Butylbenzene	ug/l	1 U	1 U				
Styrene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l	1 U	1 U				
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	**3.8 =**	1 U	**0.28 J**	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/l	**51.2 =**	1 U	**16.9 =**	**0.63 J**	**1.5 =**	**4.7 =**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**8270 =**	**14.5 =**	**1490 =**	**86.2 =**	**146 =**	**631 =**
Trichlorofluoromethane	ug/l	1 U	1 U				
Vinyl chloride	ug/l	**13.2 =**	1 U	1 U	1 U	1 U	1 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

StationID:		VD-66	VD-69	VD-69	VD-69	VD-69	VD-69
Client Sample ID:		1717VD66Q203	017-17-VD69-Q1-02	17-17VD69Q202	17VD69Q302	717VD69Q402	1717VD69Q103
Lab Sample ID:		230507501	220212901	220303603	220604101	221011804	230112901
Date Collected:		06/03/2003	02/28/2002	04/08/2002	07/09/2002	10/11/2002	01/21/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**17.3 =**	**19.7 =**	**11.5 =**	**15.2 =**	**18.6 =**	**17.6 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l		1 U	1 U			
1,1,1-Trichloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
1,1,2,2-Tetrachloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
1,1,2-Trichloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
1,1-Dichloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
1,1-Dichloroethene	ug/l	**3.8 J**	1 U	1 U	1 U	**2.1 =**	**2.6 J**
1,1-Dichloropropene	ug/l		1 U	1 U			
1,2,3-Trichlorobenzene	ug/l		1 U	1 U			
1,2,3-Trichloropropane	ug/l		1 U	1 U			
1,2,4-Trichlorobenzene	ug/l		1 U	1 U			
1,2,4-Trimethylbenzene	ug/l		1 U	1 U			
1,2-Dibromo-3-chloropropane	ug/l		1 U	1 U			
1,2-Dibromoethane(EDB)	ug/l		1 U	1 U			
1,2-Dichlorobenzene	ug/l		1 U	1 U			
1,2-Dichloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
1,2-Dichloropropane	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
1,3,5-Trimethylbenzene	ug/l		1 U	1 U			
1,3-Dichlorobenzene	ug/l		1 U	1 U			
1,3-Dichloropropane	ug/l		1 U	1 U			
1,4-Dichlorobenzene	ug/l		1 U	1 U			
1-Chlorohexane	ug/l		1 U	1 U			
2,2-Dichloropropane	ug/l		1 U	1 U			
2-Butanone	ug/l	10 U			**2.2 J**	5 U	25 U
2-Chlorotoluene	ug/l		1 U	1 U			
2-Hexanone	ug/l	10 U			5 U	5 U	25 U
4-Chlorotoluene	ug/l		1 U	1 U			
4-Isopropyltoluene	ug/l		1 U	1 U			
4-Methyl-2-pentanone	ug/l	10 U			5 U	5 U	25 U
Acetone	ug/l	20 U			**37.8 =**	10 U	50 UJ
Benzene	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
Bromobenzene	ug/l		1 U	1 U			
Bromochloromethane	ug/l		1 U	1 U			
Bromodichloromethane	ug/l	5 U	1 U	**1 =**	1 U	1 U	5 U
Bromoform	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
Bromomethane	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
Carbon disulfide	ug/l	**53.9 =**			**14.1 =**	**1.2 =**	5 U
Carbon tetrachloride	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
Chlorobenzene	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
Chloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
Chloroform	ug/l	5 U	**0.3 J**	**2.2 =**	1 U	1 U	5 U
Chloromethane	ug/l	5 U	1 U	**1.8 =**	1 U	1 U	5 U
cis-1,2-Dichloroethene	ug/l	**756 =**	**123 =**	**4.1 =**	**19.6 =**	**470 =**	**424 =**
cis-1,3-Dichloropropene	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
Dibromochloromethane	ug/l	5 U	1 U	**0.6 J**	1 U	1 U	5 U
Dibromomethane	ug/l		1 U	1 U			
Dichlorodifluoromethane	ug/l		1 U	1 U			
Ethylbenzene	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
Hexachlorobutadiene	ug/l		1 U	1 U			
Isopropylbenzene (Cumene)	ug/l		1 U	1 U			
Methylene chloride	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
MTBE	ug/l	5 U			1 U	1 U	5 U
n-Butylbenzene	ug/l		1 U	1 U			
n-Propylbenzene	ug/l		1 U	1 U			
Naphthalene	ug/l		1 U	1 U			
o-Xylene	ug/l		1 U	1 U			
p,m-Xylene	ug/l		2 U	2 U			
Xylene (total)	ug/l	15 U			2 U	**0.64 J**	15 U
sec-Butylbenzene	ug/l		1 U	1 U			
Styrene	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
tert-Butylbenzene	ug/l		1 U	1 U			
Tetrachloroethene	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
Toluene	ug/l	**8.6 =**	**0.34 J**	1 U	1 U	**4 =**	**4.5 J**
trans-1,2-Dichloroethene	ug/l	**17.1 =**	**1.2 =**	1 U	**0.62 J**	**12.9 =**	**11.4 =**
trans-1,3-Dichloropropene	ug/l	5 U	1 U	1 U	1 U	1 U	5 U
Trichloroethene	ug/l	**2390 =**	**11 =**	**1.2 =**	**6.6 =**	**3630 =**	**4380 =**
Trichlorofluoromethane	ug/l		1 U	1 U			
Vinyl chloride	ug/l	**2.8 J**	**5.4 =**	1 U	**0.59 J**	**2.8 =**	**1.5 J**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

StationID:		VD-69	VD-70	VD-71	VD-71	VD-71	VD-71
Client Sample ID:		1717VD69Q203	1717VD70Q203	017-17-VD71-Q1-02	17-17VD71Q202	17VD71Q302	717VD71Q402
Lab Sample ID:		230507502	230507503	220212902	220306601	220604103	221008612
Date Collected:		06/03/2003	06/03/2003	02/28/2002	04/11/2002	07/09/2002	10/09/2002
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**16.1 =**	**15.3 =**	**23.8 =**	**15.4 =**	**20.9 =**	**18.9 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l			1 U	1 U		
1,1,1-Trichloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	**3.5 J**	**3.2 =**	**1.5 =**	1 U	**1.2 =**	**4 =**
1,1-Dichloropropene	ug/l			1 U	1 U		
1,2,3-Trichlorobenzene	ug/l			1 U	1 U		
1,2,3-Trichloropropane	ug/l			1 U	1 U		
1,2,4-Trichlorobenzene	ug/l			1 U	1 U		
1,2,4-Trimethylbenzene	ug/l			1 U	1 U		
1,2-Dibromo-3-chloropropane	ug/l			1 U	1 U		
1,2-Dibromoethane(EDB)	ug/l			1 U	1 U		
1,2-Dichlorobenzene	ug/l			1 U	1 U		
1,2-Dichloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l			1 U	1 U		
1,3-Dichlorobenzene	ug/l			1 U	1 U		
1,3-Dichloropropane	ug/l			1 U	1 U		
1,4-Dichlorobenzene	ug/l			1 U	1 U		
1-Chlorohexane	ug/l			1 U	1 U		
2,2-Dichloropropane	ug/l			1 U	1 U		
2-Butanone	ug/l	10 U	2 U			5 U	5 U
2-Chlorotoluene	ug/l			1 U	1 U		
2-Hexanone	ug/l	10 U	2 U			5 U	5 U
4-Chlorotoluene	ug/l			1 U	1 U		
4-Isopropyltoluene	ug/l			1 U	1 U		
4-Methyl-2-pentanone	ug/l	10 U	2 U			5 U	5 U
Acetone	ug/l	20 U	4 U			10 U	10 U
Benzene	ug/l	5 U	1 U	**0.25 J**	1 U	1 U	**0.21 J**
Bromobenzene	ug/l			1 U	1 U		
Bromochloromethane	ug/l			1 U	1 U		
Bromodichloromethane	ug/l	5 U	1 U	1 U	**1.1 =**	1 U	1 U
Bromoform	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	ug/l	5 U	**1.7 =**			1 U	1 U
Carbon tetrachloride	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	5 U	1 U	**0.38 J**	**1.8 =**	**0.76 J**	**0.29 J**
Chloromethane	ug/l	5 U	1 U	1 U	**1.3 =**	1 U	1 U
cis-1,2-Dichloroethene	ug/l	**322 =**	**443 =**	**257 =**	**22.1 =**	**376 =**	**1110 =**
cis-1,3-Dichloropropene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	5 U	1 U	1 U	**0.49 J**	1 U	1 U
Dibromomethane	ug/l			1 U	1 U		
Dichlorodifluoromethane	ug/l			1 U	1 U		
Ethylbenzene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l			1 U	1 U		
Isopropylbenzene (Cumene)	ug/l			1 U	1 U		
Methylene chloride	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l	5 U	1 U			1 U	1 U
n-Butylbenzene	ug/l			1 U	1 U		
n-Propylbenzene	ug/l			1 U	1 U		
Naphthalene	ug/l			1 U	1 U		
o-Xylene	ug/l			1 U	1 U		
p,m-Xylene	ug/l			2 U	2 U		
Xylene (total)	ug/l	15 U	3 U			2 U	2 U
sec-Butylbenzene	ug/l			1 U	1 U		
Styrene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l			1 U	1 U		
Tetrachloroethene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	**2.6 J**	**0.87 J**	**0.49 J**	1 U	1 U	**1.9 =**
trans-1,2-Dichloroethene	ug/l	**7.6 =**	**9.9 =**	**8.3 =**	1 U	**19.5 =**	**29.8 =**
trans-1,3-Dichloropropene	ug/l	5 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**3150 =**	**1290 =**	**61.7 =**	**2.3 =**	**102 =**	**2480 =**
Trichlorofluoromethane	ug/l			1 U	1 U		
Vinyl chloride	ug/l	5 U	**7.7 =**	**14.5 =**	1 U	**8.2 =**	**12.8 =**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	VD-71	VD-71	VD-72	VD-73	VD-73	VD-73
	Client Sample ID:	1717VD71Q103	1717VD71Q203	1717VD72Q203	017-17-VD73-Q1-02	17-17VD73Q202	17VD73Q302
	Lab Sample ID:	230112911	230507505	230508305	220214401	220305704	220604110
	Date Collected:	01/21/2003	06/03/2003	06/04/2003	03/01/2002	04/10/2002	07/09/2002
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**14.9 =**	**13.7 =**	**19.4 =**	**29.3 =**	**20.9 =**	**27.6 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l				1 U	1 U	
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	1 U	**1 =**	1 U	**1.1 =**
1,1-Dichloroethane	ug/l	1 U	1 U	1 U	**5.9 =**	**0.7 J**	**5 =**
1,1-Dichloroethene	ug/l	**5.2 =**	**1.7 =**	**3.1 =**	**17.8 =**	1 U	**4 =**
1,1-Dichloropropene	ug/l				1 U	1 U	
1,2,3-Trichlorobenzene	ug/l				1 U	1 U	
1,2,3-Trichloropropane	ug/l				1 U	1 U	
1,2,4-Trichlorobenzene	ug/l				1 U	1 U	
1,2,4-Trimethylbenzene	ug/l				1 U	1 U	
1,2-Dibromo-3-chloropropane	ug/l				1 U	1 U	
1,2-Dibromoethane(EDB)	ug/l				1 U	1 U	
1,2-Dichlorobenzene	ug/l				1 U	1 U	
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l				1 U	1 U	
1,3-Dichlorobenzene	ug/l				1 U	1 U	
1,3-Dichloropropane	ug/l				1 U	1 U	
1,4-Dichlorobenzene	ug/l				1 U	1 U	
1-Chlorohexane	ug/l				1 U	1 U	
2,2-Dichloropropane	ug/l				1 U	1 U	
2-Butanone	ug/l	5 U	2 U	**11.3 =**			5 U
2-Chlorotoluene	ug/l				1 U	1 U	
2-Hexanone	ug/l	5 U	2 U	2 U			5 U
4-Chlorotoluene	ug/l				1 U	1 U	
4-Isopropyltoluene	ug/l				1 U	1 U	
4-Methyl-2-pentanone	ug/l	5 U	2 U	2 U			5 U
Acetone	ug/l	10 UJ	4 U	**50 =**			**10.9 =**
Benzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/l				1 U	1 U	
Bromochloromethane	ug/l				1 U	1 U	
Bromodichloromethane	ug/l	1 U	1 U	1 U	1 U	**1.5 =**	1 U
Bromoform	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	ug/l	1 U	1 U	**1.1 =**			**9.4 =**
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	**0.58 J**	**0.35 J**	**0.4 J**	**0.24 J**	**2.6 =**	**0.88 J**
Chloromethane	ug/l	1 U	1 U	1 U	1 U	**1.6 =**	1 U
cis-1,2-Dichloroethene	ug/l	**588 =**	**284 =**	**366 =**	**1650 =**	**61.7 =**	**880 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	1 U	1 U	1 U	**1.1 =**	1 U
Dibromomethane	ug/l				1 U	1 U	
Dichlorodifluoromethane	ug/l				1 U	1 U	
Ethylbenzene	ug/l	**0.24 J**	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l				1 U	1 U	
Isopropylbenzene (Cumene)	ug/l				1 U	1 U	
Methylene chloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l	1 U	1 U	1 U			1 U
n-Butylbenzene	ug/l				1 U	1 U	
n-Propylbenzene	ug/l				1 U	1 U	
Naphthalene	ug/l				1 U	1 U	
o-Xylene	ug/l				1 U	1 U	
p,m-Xylene	ug/l				2 U	2 U	
Xylene (total)	ug/l	**0.33 J**	3 U	3 U			2 U
sec-Butylbenzene	ug/l				1 U	1 U	
Styrene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l				1 U	1 U	
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	**0.76 J**	**0.5 J**	**0.17 J**	**0.77 J**	1 U	1 U
trans-1,2-Dichloroethene	ug/l	**17.4 =**	**8.7 =**	**14.7 =**	**27.7 =**	**1.2 =**	**21.3 =**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**3120 =**	**1780 =**	**293 =**	**1230 =**	**163 =**	**1580 =**
Trichlorofluoromethane	ug/l				1 U	1 U	
Vinyl chloride	ug/l	**4 =**	**1.1 =**	**2.2 =**	**12.2 =**	1 U	**3.3 =**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	VD-73	VD-73	VD-73	VD-76	VD-76	VD-76
	Client Sample ID:	717VD73Q402	1717VD73Q103	1717VD73Q203	017-17-VD76-Q1-02	17-17VD76Q202	17VD76Q302
	Lab Sample ID:	221008610	230115505	230508310	220214404	220305701	220604113
	Date Collected:	10/09/2002	01/23/2003	06/04/2003	03/01/2002	04/10/2002	07/09/2002
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**33.2 =**	**40.1 =**	**33.2 =**	**24.2 =**	**17.8 =**	**19.5 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l				1 U	1 U	
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/l	1 U	**0.4 J**	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropene	ug/l				1 U	1 U	
1,2,3-Trichlorobenzene	ug/l				1 U	1 U	
1,2,3-Trichloropropane	ug/l				1 U	1 U	
1,2,4-Trichlorobenzene	ug/l				1 U	1 U	
1,2,4-Trimethylbenzene	ug/l				1 U	1 U	
1,2-Dibromo-3-chloropropane	ug/l				1 U	1 U	
1,2-Dibromoethane(EDB)	ug/l				1 U	1 U	
1,2-Dichlorobenzene	ug/l				1 U	1 U	
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l				1 U	1 U	
1,3-Dichlorobenzene	ug/l				1 U	1 U	
1,3-Dichloropropane	ug/l				1 U	1 U	
1,4-Dichlorobenzene	ug/l				1 U	1 U	
1-Chlorohexane	ug/l				1 U	1 U	
2,2-Dichloropropane	ug/l				1 U	1 U	
2-Butanone	ug/l	**6.3 =**	**149 =**	**260 =**			**12 =**
2-Chlorotoluene	ug/l				1 U	1 U	
2-Hexanone	ug/l	5 U	4 U	2 U			5 U
4-Chlorotoluene	ug/l				1 U	1 U	
4-Isopropyltoluene	ug/l				1 U	1 U	
4-Methyl-2-pentanone	ug/l	5 U	4 U	2 U			5 U
Acetone	ug/l	**85.4 =**	**53.3 =**	**115 =**			**299 =**
Benzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/l				1 U	1 U	
Bromochloromethane	ug/l				1 U	1 U	
Bromodichloromethane	ug/l	**1.3 =**	1 U	1 U	1 U	1 U	**0.5 J**
Bromoform	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	1 U	1 UR	1 U	1 U	1 U	1 U
Carbon disulfide	ug/l	**1.7 =**	1 U	1 U			**90.3 =**
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	**4.6 =**	**1.3 =**	1 U	**0.26 J**	**0.97 J**	**2.7 =**
Chloromethane	ug/l	1 U	1 UJ	1 U	1 U	**0.66 J**	**0.58 J**
cis-1,2-Dichloroethene	ug/l	**0.26 J**	**2.3 =**	**0.68 J**	**2.5 =**	**5.8 =**	**6.3 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	ug/l				1 U	1 U	
Dichlorodifluoromethane	ug/l				1 U	1 U	
Ethylbenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l				1 U	1 U	
Isopropylbenzene (Cumene)	ug/l				1 U	1 U	
Methylene chloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l	1 U	1 U	1 U			1 U
n-Butylbenzene	ug/l				1 U	1 U	
n-Propylbenzene	ug/l				1 U	1 U	
Naphthalene	ug/l				1 U	1 U	
o-Xylene	ug/l				1 U	1 U	
p,m-Xylene	ug/l				2 U	2 U	
Xylene (total)	ug/l	2 U	3 U	3 U			2 U
sec-Butylbenzene	ug/l				1 U	1 U	
Styrene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l				1 U	1 U	
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	1 U	1 U	**0.12 J**	**1.5 =**	1 U	1 U
trans-1,2-Dichloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	**0.34 J**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**3.4 =**	**17.2 =**	**0.73 J**	**1.5 =**	**1.4 =**	1 U
Trichlorofluoromethane	ug/l				1 U	1 U	
Vinyl chloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	VD-76	VD-76	MW-23A	MW-23A	MW-23A	MW-23A
	Client Sample ID:	717VD76Q402	1717VD76Q103	17-17MW23AQ202	1717MW23AQ3	171723AQ103	171723AQ203
	Lab Sample ID:	221010403	230115508	220304703	220700811	230113605	230509401
	Date Collected:	10/10/2002	01/23/2003	04/09/2002	07/10/2002	01/22/2003	06/05/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**22.6 =**	**22.8 =**	**19.9 =**	**10.5 =**	**7.44 =**	**1.9 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l			1 U			
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
1,1-Dichloroethane	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
1,1-Dichloroethene	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
1,1-Dichloropropene	ug/l			1 U			
1,2,3-Trichlorobenzene	ug/l			1 U			
1,2,3-Trichloropropane	ug/l			1 U			
1,2,4-Trichlorobenzene	ug/l			1 U			
1,2,4-Trimethylbenzene	ug/l			1 U			
1,2-Dibromo-3-chloropropane	ug/l			1 U			
1,2-Dibromoethane(EDB)	ug/l			1 U			
1,2-Dichlorobenzene	ug/l			1 U			
1,2-Dichloroethane	ug/l	1 U	1 U	**0.24 J**	10 U	50 U	5 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
1,3,5-Trimethylbenzene	ug/l			1 U			
1,3-Dichlorobenzene	ug/l			1 U			
1,3-Dichloropropane	ug/l			1 U			
1,4-Dichlorobenzene	ug/l			1 U			
1-Chlorohexane	ug/l			1 U			
2,2-Dichloropropane	ug/l			1 U			
2-Butanone	ug/l	**8 =**	**3.6 J**		50 U	200 U	10 U
2-Chlorotoluene	ug/l			1 U			
2-Hexanone	ug/l	5 U	4 U		50 U	200 U	10 U
4-Chlorotoluene	ug/l			1 U			
4-Isopropyltoluene	ug/l			1 U			
4-Methyl-2-pentanone	ug/l	5 U	4 U		50 U	200 U	10 U
Acetone	ug/l	**173 =**	**40.3 =**		100 U	200 U	20 U
Benzene	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
Bromobenzene	ug/l			1 U			
Bromochloromethane	ug/l			1 U			
Bromodichloromethane	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
Bromoform	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
Bromomethane	ug/l	1 U	1 UR	1 U	10 U	50 U	5 U
Carbon disulfide	ug/l	**109 =**	**86.8 =**		10 U	50 U	5 U
Carbon tetrachloride	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
Chlorobenzene	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
Chloroethane	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
Chloroform	ug/l	**1.4 =**	**0.55 J**	**0.69 J**	10 U	50 U	5 U
Chloromethane	ug/l	**0.44 J**	1 UJ	1 U	10 U	50 U	5 U
cis-1,2-Dichloroethene	ug/l	**9 =**	**20.5 =**	**2.4 =**	**17.6 =**	**354 =**	**13.1 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
Dibromochloromethane	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
Dibromomethane	ug/l			1 U			
Dichlorodifluoromethane	ug/l			1 U			
Ethylbenzene	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
Hexachlorobutadiene	ug/l			1 U			
Isopropylbenzene (Cumene)	ug/l			1 U			
Methylene chloride	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
MTBE	ug/l	1 U	1 U		10 U	50 U	5 U
n-Butylbenzene	ug/l			1 U			
n-Propylbenzene	ug/l			1 U			
Naphthalene	ug/l			1 U			
o-Xylene	ug/l			1 U			
p,m-Xylene	ug/l			2 U			
Xylene (total)	ug/l	2 U	3 U		20 U	150 U	15 U
sec-Butylbenzene	ug/l			1 U			
Styrene	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
tert-Butylbenzene	ug/l			1 U			
Tetrachloroethene	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
Toluene	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
trans-1,2-Dichloroethene	ug/l	**0.31 J**	**0.8 J**	1 U	10 U	50 U	5 U
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	10 U	50 U	5 U
Trichloroethene	ug/l	1 U	1 U	**63.9 =**	**5190 =**	**46700 =**	**3340 =**
Trichlorofluoromethane	ug/l			1 U			
Vinyl chloride	ug/l	1 U	1 U	1 U	10 U	50 U	5 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
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	StationID:	MW-23C	MW-24B	MW-24B	MW-24B	MW-24B	MW-24B
	Client Sample ID:	17MW23CQ402	17-17MW24BQ202	1717MW24BQ3	17MW24BQ402	171724BQ103	171724BQ203
	Lab Sample ID:	221007407	220304706	220700801	221007406	230113606	230509310
	Date Collected:	10/08/2002	04/09/2002	07/10/2002	10/08/2002	01/22/2003	06/05/2003
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**9.13 =**	**23.8 =**	**10.4 =**	**12 =**	**5.03 =**	**3.03 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l		1 U				
1,1,1-Trichloroethane	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
1,1,2-Trichloroethane	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
1,1-Dichloroethane	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
1,1-Dichloroethene	ug/l	50 U	1 U	10 U	10 U	10 U	**1.4 =**
1,1-Dichloropropene	ug/l		1 U				
1,2,3-Trichlorobenzene	ug/l		1 U				
1,2,3-Trichloropropane	ug/l		1 U				
1,2,4-Trichlorobenzene	ug/l		1 U				
1,2,4-Trimethylbenzene	ug/l		1 U				
1,2-Dibromo-3-chloropropane	ug/l		1 U				
1,2-Dibromoethane(EDB)	ug/l		1 U				
1,2-Dichlorobenzene	ug/l		1 U				
1,2-Dichloroethane	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
1,2-Dichloropropane	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
1,3,5-Trimethylbenzene	ug/l		1 U				
1,3-Dichlorobenzene	ug/l		1 U				
1,3-Dichloropropane	ug/l		1 U				
1,4-Dichlorobenzene	ug/l		1 U				
1-Chlorohexane	ug/l		1 U				
2,2-Dichloropropane	ug/l		1 U				
2-Butanone	ug/l	250 U		50 U	50 U	40 U	2 U
2-Chlorotoluene	ug/l		1 U				
2-Hexanone	ug/l	250 U		50 U	50 U	40 U	2 U
4-Chlorotoluene	ug/l		1 U				
4-Isopropyltoluene	ug/l		1 U				
4-Methyl-2-pentanone	ug/l	250 U		50 U	50 U	40 U	2 U
Acetone	ug/l	500 U		100 U	100 U	40 U	4 U
Benzene	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
Bromobenzene	ug/l		1 U				
Bromochloromethane	ug/l		1 U				
Bromodichloromethane	ug/l	50 U	**0.69 J**	10 U	10 U	10 U	1 U
Bromoform	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
Bromomethane	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
Carbon disulfide	ug/l	50 U		10 U	10 U	10 U	1 U
Carbon tetrachloride	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
Chlorobenzene	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
Chloroethane	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
Chloroform	ug/l	50 U	**1.2 =**	10 U	10 U	10 U	**0.23 J**
Chloromethane	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
cis-1,2-Dichloroethene	ug/l	**102 =**	**0.3 J**	**38.4 =**	**31.8 =**	**16.4 =**	**10.3 =**
cis-1,3-Dichloropropene	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
Dibromochloromethane	ug/l	50 U	**0.37 J**	10 U	10 U	10 U	1 U
Dibromomethane	ug/l		1 U				
Dichlorodifluoromethane	ug/l		1 U				
Ethylbenzene	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
Hexachlorobutadiene	ug/l		1 U				
Isopropylbenzene (Cumene)	ug/l		1 U				
Methylene chloride	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
MTBE	ug/l	50 U		10 U	10 U	10 U	1 U
n-Butylbenzene	ug/l		1 U				
n-Propylbenzene	ug/l		1 U				
Naphthalene	ug/l		1 U				
o-Xylene	ug/l		1 U				
p,m-Xylene	ug/l		2 U				
Xylene (total)	ug/l	100 U		20 U	20 U	30 U	3 U
sec-Butylbenzene	ug/l		1 U				
Styrene	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
tert-Butylbenzene	ug/l		1 U				
Tetrachloroethene	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
Toluene	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
trans-1,2-Dichloroethene	ug/l	50 U	1 U	10 U	10 U	10 U	**0.6 J**
trans-1,3-Dichloropropene	ug/l	50 U	1 U	10 U	10 U	10 U	1 U
Trichloroethene	ug/l	**70000 =**	**66.6 =**	**3320 =**	**14400 =**	**11000 =**	**2110 =**
Trichlorofluoromethane	ug/l		1 U				
Vinyl chloride	ug/l	50 U	1 U	10 U	10 U	10 U	1 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
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	StationID:	MW-25C	MW-25C	MW-25C	MW-25C	D-19	D-19
	Client Sample ID:	17-17MW25CQ202	1717MW25CQ3	17MW25CQ402	171725CQ103	17D19Q302	717D19Q402
	Lab Sample ID:	220305705	220700803	221007408	230115504	220604102	221010402
	Date Collected:	04/10/2002	07/10/2002	10/08/2002	01/23/2003	07/09/2002	10/10/2002
Parameter	**Units**						
Miscellaneous Parameters							
Chloride	mg/l	**24.4 =**	**25.7 =**	**20.9 =**	**21.2 =**	**11 =**	**12.4 =**
Volatile Organic Constituents							
1,1,1,2-Tetrachloroethane	ug/l	1 U					
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropene	ug/l	1 U					
1,2,3-Trichlorobenzene	ug/l	1 U					
1,2,3-Trichloropropane	ug/l	1 U					
1,2,4-Trichlorobenzene	ug/l	1 U					
1,2,4-Trimethylbenzene	ug/l	1 U					
1,2-Dibromo-3-chloropropane	ug/l	1 U					
1,2-Dibromoethane(EDB)	ug/l	1 U					
1,2-Dichlorobenzene	ug/l	1 U					
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l	1 U					
1,3-Dichlorobenzene	ug/l	1 U					
1,3-Dichloropropane	ug/l	1 U					
1,4-Dichlorobenzene	ug/l	1 U					
1-Chlorohexane	ug/l	1 U					
2,2-Dichloropropane	ug/l	1 U					
2-Butanone	ug/l		5 U	5 U	4 U	5 U	5 U
2-Chlorotoluene	ug/l	1 U					
2-Hexanone	ug/l		5 U	5 U	4 U	5 U	5 U
4-Chlorotoluene	ug/l	1 U					
4-Isopropyltoluene	ug/l	1 U					
4-Methyl-2-pentanone	ug/l		5 U	5 U	4 U	5 U	5 U
Acetone	ug/l		10 U	10 U	4 U	10 U	10 U
Benzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/l	1 U					
Bromochloromethane	ug/l	1 U					
Bromodichloromethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	1 U	1 U	1 U	1 UR	1 U	1 U
Carbon disulfide	ug/l		1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	1 U	1 U	1 U	1 U	1 U	**0.26 J**
Chloromethane	ug/l	1 U	1 U	1 U	1 UJ	1 U	1 U
cis-1,2-Dichloroethene	ug/l	**0.2 J**	1 U	1 U	1 U	**41.3 =**	**58.1 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	ug/l	1 U					
Dichlorodifluoromethane	ug/l	1 U					
Ethylbenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l	1 U					
Isopropylbenzene (Cumene)	ug/l	1 U					
Methylene chloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l		1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	ug/l	1 U					
n-Propylbenzene	ug/l	1 U					
Naphthalene	ug/l	1 U					
o-Xylene	ug/l	1 U					
p,m-Xylene	ug/l	2 U					
Xylene (total)	ug/l		2 U	2 U	3 U	2 U	2 U
sec-Butylbenzene	ug/l	1 U					
Styrene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l	1 U					
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/l	1 U	1 U	1 U	1 U	**2.6 =**	**5.4 =**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**0.59 J**	1 U	**0.64 J**	1 U	**16.4 =**	**30.7 =**
Trichlorofluoromethane	ug/l	1 U					
Vinyl chloride	ug/l	1 U	1 U	1 U	1 U	**3.2 =**	**2.6 =**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
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NTC Orlando, Orlando, Florida

	StationID:	D-19	D-20	D-20	D-20	D-20	D-21	D-21
	Client Sample ID:	1717D19Q103	17D20Q302	717D20Q402	1717D20Q103	1717D20Q203	17-17D21Q202	17D21Q302
	Lab Sample ID:	230115509	220604106	221008607	230112912	230507508	220303605	220604104
	Date Collected:	01/23/2003	07/09/2002	10/09/2002	01/21/2003	06/03/2003	04/08/2002	07/09/2002
Parameter	**Units**							
Miscellaneous Parameters								
Chloride	mg/l	**13 =**	**25.4 =**	**24.9 =**	**25.3 =**	**22.4 =**	**14.1 =**	**17.2 =**
Volatile Organic Constituents								
1,1,1,2-Tetrachloroethane	ug/l						1 U	
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	1 U	1 U	**0.46 J**	**0.77 J**	**2.4 =**	1 U	1 U
1,1-Dichloropropene	ug/l						1 U	
1,2,3-Trichlorobenzene	ug/l						1 U	
1,2,3-Trichloropropane	ug/l						1 U	
1,2,4-Trichlorobenzene	ug/l						1 U	
1,2,4-Trimethylbenzene	ug/l						1 U	
1,2-Dibromo-3-chloropropane	ug/l						1 U	
1,2-Dibromoethane(EDB)	ug/l						1 U	
1,2-Dichlorobenzene	ug/l						1 U	
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l						1 U	
1,3-Dichlorobenzene	ug/l						1 U	
1,3-Dichloropropane	ug/l						1 U	
1,4-Dichlorobenzene	ug/l						1 U	
1-Chlorohexane	ug/l						1 U	
2,2-Dichloropropane	ug/l						1 U	
2-Butanone	ug/l	4 U	5 U	5 U	5 U	2 U		5 U
2-Chlorotoluene	ug/l						1 U	
2-Hexanone	ug/l	4 U	5 U	5 U	5 U	2 U		5 U
4-Chlorotoluene	ug/l						1 U	
4-Isopropyltoluene	ug/l						1 U	
4-Methyl-2-pentanone	ug/l	4 U	5 U	5 U	5 U	2 U		5 U
Acetone	ug/l	4 U	10 U	10 U	10 UJ	4 U		10 U
Benzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/l						1 U	
Bromochloromethane	ug/l						1 U	
Bromodichloromethane	ug/l	1 U	1 U	1 U	1 U	1 U	**0.7 J**	1 U
Bromoform	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	1 UR	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	ug/l	1 U	1 U	1 U	1 U	1 U		**0.29 J**
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	1 U	**0.51 J**	1 U	**0.27 J**	1 U	**1.1 =**	**0.32 J**
Chloromethane	ug/l	1 UJ	**0.41 J**	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/l	**54.5 =**	**95.5 =**	**149 =**	**188 =**	**104 =**	**14.2 =**	**15.9 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	1 U	1 U	1 U	1 U	**0.32 J**	1 U
Dibromomethane	ug/l						1 U	
Dichlorodifluoromethane	ug/l						1 U	
Ethylbenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l						1 U	
Isopropylbenzene (Cumene)	ug/l						1 U	
Methylene chloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l	1 U	1 U	1 U	1 U	1 U		1 U
n-Butylbenzene	ug/l						1 U	
n-Propylbenzene	ug/l						1 U	
Naphthalene	ug/l						1 U	
o-Xylene	ug/l						1 U	
p,m-Xylene	ug/l						2 U	
Xylene (total)	ug/l	3 U	2 U	2 U	3 U	3 U		2 U
sec-Butylbenzene	ug/l						1 U	
Styrene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l						1 U	
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/l	**4.7 =**	**3.8 =**	**5.7 =**	**7.7 =**	**4.6 =**	**0.59 J**	**0.71 J**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**25.1 =**	**281 =**	**337 =**	**385 =**	**406 =**	**21.9 =**	**28.2 =**
Trichlorofluoromethane	ug/l						1 U	
Vinyl chloride	ug/l	**2.4 =**	1 U	1 U	**0.39 J**	1 U	1 U	1 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	D-21	D-21	D-24	D-25	D-25	D-25	D-25
	Client Sample ID:	717D21Q402	1717D21Q103	1717D24Q203	17D25Q302	717D25Q402	1717D25Q103	1717D25Q203
	Lab Sample ID:	221008613	230112902	230509404	220703205	221008605	230112914	230508302
	Date Collected:	10/09/2002	01/21/2003	06/05/2003	07/11/2002	10/09/2002	01/21/2003	06/04/2003
Parameter	**Units**							
Miscellaneous Parameters								
Chloride	mg/l	**11.1 =**	**13.4 =**	**5.63 =**	**21.8 =**	**26 =**	**24.4 =**	**22.9 =**
Volatile Organic Constituents								
1,1,1,2-Tetrachloroethane	ug/l							
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	1 U	**3.7 J**	50 U	20 U	50 U
1,1-Dichloroethane	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
1,1-Dichloroethene	ug/l	1 U	1 U	**0.58 J**	10 U	50 U	20 U	50 U
1,1-Dichloropropene	ug/l							
1,2,3-Trichlorobenzene	ug/l							
1,2,3-Trichloropropane	ug/l							
1,2,4-Trichlorobenzene	ug/l							
1,2,4-Trimethylbenzene	ug/l							
1,2-Dibromo-3-chloropropane	ug/l							
1,2-Dibromoethane(EDB)	ug/l							
1,2-Dichlorobenzene	ug/l							
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
1,3,5-Trimethylbenzene	ug/l							
1,3-Dichlorobenzene	ug/l							
1,3-Dichloropropane	ug/l							
1,4-Dichlorobenzene	ug/l							
1-Chlorohexane	ug/l							
2,2-Dichloropropane	ug/l							
2-Butanone	ug/l	5 U	5 U	2 U	50 U	250 U	100 U	100 U
2-Chlorotoluene	ug/l							
2-Hexanone	ug/l	5 U	5 U	2 U	50 U	250 U	100 U	100 U
4-Chlorotoluene	ug/l							
4-Isopropyltoluene	ug/l							
4-Methyl-2-pentanone	ug/l	5 U	5 U	2 U	50 U	250 U	100 U	100 U
Acetone	ug/l	**5.5 J**	10 UJ	4 U	100 U	500 U	200 UJ	200 U
Benzene	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Bromobenzene	ug/l							
Bromochloromethane	ug/l							
Bromodichloromethane	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Bromoform	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Bromomethane	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Carbon disulfide	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Carbon tetrachloride	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Chlorobenzene	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Chloroethane	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Chloroform	ug/l	1 U	**0.14 J**	1 U	10 U	50 U	20 U	50 U
Chloromethane	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
cis-1,2-Dichloroethene	ug/l	**16.4 =**	**16.9 =**	**18.5 =**	**420 =**	**342 =**	**249 =**	**184 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Dibromochloromethane	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Dibromomethane	ug/l							
Dichlorodifluoromethane	ug/l							
Ethylbenzene	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Hexachlorobutadiene	ug/l							
Isopropylbenzene (Cumene)	ug/l							
Methylene chloride	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
MTBE	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
n-Butylbenzene	ug/l							
n-Propylbenzene	ug/l							
Naphthalene	ug/l							
o-Xylene	ug/l							
p,m-Xylene	ug/l							
Xylene (total)	ug/l	2 U	3 U	3 U	20 U	100 U	60 U	150 U
sec-Butylbenzene	ug/l							
Styrene	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
tert-Butylbenzene	ug/l							
Tetrachloroethene	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Toluene	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
trans-1,2-Dichloroethene	ug/l	**1.2 =**	**1.5 =**	**0.38 J**	**6.1 J**	50 U	20 U	50 U
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	10 U	50 U	20 U	50 U
Trichloroethene	ug/l	**33.1 =**	**25.8 =**	**81.6 =**	**12500 =**	**18000 =**	**24700 =**	**45000 =**
Trichlorofluoromethane	ug/l							
Vinyl chloride	ug/l	1 U	1 U	**1.2 =**	10 U	50 U	20 U	50 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
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	StationID:	D-26	D-26	D-26	D-28	D-28	D-28	D-28	D-30
	Client Sample ID:	1717D26Q3	17D26Q402	1717D26Q103	1717D28Q3	17D28Q402	1717D28Q103	1717D28Q203	17D30Q302
	Lab Sample ID:	220700817	221007402	230112906	220700804	221007412	230115501	230509305	220703305
	Date Collected:	07/10/2002	10/08/2002	01/21/2003	07/10/2002	10/08/2002	01/23/2003	06/05/2003	07/11/2002
Parameter	**Units**								
Miscellaneous Parameters									
Chloride	mg/l	**16.8 =**	**15.4 =**	**14.9 =**	**12.1 =**	**8.83 =**	**8.37 =**	**5.53 =**	**25.7 =**
Volatile Organic Constituents									
1,1,1,2-Tetrachloroethane	ug/l								
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	1 U	**0.7 J**	1 U	1 U	1 U	10 U
1,1-Dichloroethane	ug/l	1 U	1 U	1 U	**4.4 =**	**6 =**	**6.5 =**	**2.9 =**	10 U
1,1-Dichloroethene	ug/l	1 U	1 U	1 U	**1.3 =**	**2.1 =**	**7.9 =**	**11.2 =**	10 U
1,1-Dichloropropene	ug/l								
1,2,3-Trichlorobenzene	ug/l								
1,2,3-Trichloropropane	ug/l								
1,2,4-Trichlorobenzene	ug/l								
1,2,4-Trimethylbenzene	ug/l								
1,2-Dibromo-3-chloropropane	ug/l								
1,2-Dibromoethane(EDB)	ug/l								
1,2-Dichlorobenzene	ug/l								
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
1,3,5-Trimethylbenzene	ug/l								
1,3-Dichlorobenzene	ug/l								
1,3-Dichloropropane	ug/l								
1,4-Dichlorobenzene	ug/l								
1-Chlorohexane	ug/l								
2,2-Dichloropropane	ug/l								
2-Butanone	ug/l	5 U	5 U	5 U	5 U	5 U	4 U	2 U	50 U
2-Chlorotoluene	ug/l								
2-Hexanone	ug/l	5 U	5 U	5 U	5 U	5 U	4 U	2 U	50 U
4-Chlorotoluene	ug/l								
4-Isopropyltoluene	ug/l								
4-Methyl-2-pentanone	ug/l	5 U	5 U	5 U	5 U	5 U	4 U	2 U	50 U
Acetone	ug/l	10 U	10 U	10 UJ	10 U	10 U	4 U	4 U	100 U
Benzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Bromobenzene	ug/l								
Bromochloromethane	ug/l								
Bromodichloromethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Bromoform	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Bromomethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 UR	1 U	10 U
Carbon disulfide	ug/l	1 U	1 U	1 U	**1.1 =**	**0.73 J**	1 U	1 U	10 U
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Chloroform	ug/l	1 U	1 U	1 U	**1.8 =**	**0.98 J**	**0.72 J**	1 U	10 U
Chloromethane	ug/l	1 U	1 U	1 U	**0.4 J**	**0.46 J**	1 UJ	1 U	10 U
cis-1,2-Dichloroethene	ug/l	**21.7 =**	**6.9 =**	**4.3 =**	**27.4 =**	**49.4 =**	**30 =**	**8.4 =**	**13.1 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Dibromochloromethane	ug/l	1 U	1 U	1 U	**0.31 J**	1 U	1 U	1 U	10 U
Dibromomethane	ug/l								
Dichlorodifluoromethane	ug/l								
Ethylbenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Hexachlorobutadiene	ug/l								
Isopropylbenzene (Cumene)	ug/l								
Methylene chloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
MTBE	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
n-Butylbenzene	ug/l								
n-Propylbenzene	ug/l								
Naphthalene	ug/l								
o-Xylene	ug/l								
p,m-Xylene	ug/l								
Xylene (total)	ug/l	2 U	2 U	3 U	2 U	2 U	3 U	3 U	20 U
sec-Butylbenzene	ug/l								
Styrene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
tert-Butylbenzene	ug/l								
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Toluene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
trans-1,2-Dichloroethene	ug/l	**0.83 J**	**0.35 J**	**0.24 J**	**1.5 =**	**4 =**	**2.4 =**	**0.81 J**	10 U
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
Trichloroethene	ug/l	**33.6 =**	**13.3 =**	**7.2 =**	**1010 =**	**1120 =**	**502 =**	**282 =**	**12100 =**
Trichlorofluoromethane	ug/l								
Vinyl chloride	ug/l	1 U	1 U	1 U	**0.55 J**	**2.1 =**	**4.9 =**	**4.4 =**	10 U

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	StationID:	D-30	D-30	D-30	D-31	D-31	D-31	D-31
	Client Sample ID:	717D30Q402	1717D30Q103	1717D30Q203	17-17D31Q202	17D31Q302	717D31Q402	1717D31Q103
	Lab Sample ID:	221010409	230115515	230509405	220304707	220703308	221010410	230115512
	Date Collected:	10/10/2002	01/23/2003	06/05/2003	04/09/2002	07/11/2002	10/10/2002	01/23/2003
Parameter	**Units**							
Miscellaneous Parameters								
Chloride	mg/l	**25.5 =**	**7.04 =**	**3.22 =**	**19.1 =**	**9.75 =**	**28.2 =**	**11.1 =**
Volatile Organic Constituents								
1,1,1,2-Tetrachloroethane	ug/l				1 U			
1,1,1-Trichloroethane	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropene	ug/l				1 U			
1,2,3-Trichlorobenzene	ug/l				1 U			
1,2,3-Trichloropropane	ug/l				1 U			
1,2,4-Trichlorobenzene	ug/l				1 U			
1,2,4-Trimethylbenzene	ug/l				1 U			
1,2-Dibromo-3-chloropropane	ug/l				1 U			
1,2-Dibromoethane(EDB)	ug/l				1 U			
1,2-Dichlorobenzene	ug/l				1 U			
1,2-Dichloroethane	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l				1 U			
1,3-Dichlorobenzene	ug/l				1 U			
1,3-Dichloropropane	ug/l				1 U			
1,4-Dichlorobenzene	ug/l				1 U			
1-Chlorohexane	ug/l				1 U			
2,2-Dichloropropane	ug/l				1 U			
2-Butanone	ug/l	250 U	4 U	2 U		5 U	**6 =**	4 U
2-Chlorotoluene	ug/l				1 U			
2-Hexanone	ug/l	250 U	4 U	2 U		5 U	5 U	4 U
4-Chlorotoluene	ug/l				1 U			
4-Isopropyltoluene	ug/l				1 U			
4-Methyl-2-pentanone	ug/l	250 U	4 U	2 U		5 U	5 U	4 U
Acetone	ug/l	**203 J**	4 U	4 U		10 U	**324 =**	4 U
Benzene	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/l				1 U			
Bromochloromethane	ug/l				1 U			
Bromodichloromethane	ug/l	50 U	1 U	1 U	**0.95 J**	1 U	**1.1 =**	1 U
Bromoform	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	50 U	1 UR	1 U	1 U	1 U	1 U	1 UR
Carbon disulfide	ug/l	50 U	1 U	1 U		1 U	**0.91 J**	1 U
Carbon tetrachloride	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	50 U	**0.39 J**	1 U	**1.4 =**	**0.61 J**	**3 =**	**0.13 J**
Chloromethane	ug/l	50 U	1 UJ	1 U	**0.59 J**	1 U	1 U	1 UJ
cis-1,2-Dichloroethene	ug/l	50 U	**0.53 J**	**0.31 J**	**6.3 =**	**2 =**	1 U	1 U
cis-1,3-Dichloropropene	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	50 U	1 U	1 U	**0.65 J**	1 U	1 U	1 U
Dibromomethane	ug/l				1 U			
Dichlorodifluoromethane	ug/l				1 U			
Ethylbenzene	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l				1 U			
Isopropylbenzene (Cumene)	ug/l				1 U			
Methylene chloride	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l	50 U	1 U	1 U		1 U	1 U	1 U
n-Butylbenzene	ug/l				1 U			
n-Propylbenzene	ug/l				1 U			
Naphthalene	ug/l				1 U			
o-Xylene	ug/l				1 U			
p,m-Xylene	ug/l				2 U			
Xylene (total)	ug/l	100 U	3 U	3 U		2 U	2 U	3 U
sec-Butylbenzene	ug/l				1 U			
Styrene	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l				1 U			
Tetrachloroethene	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/l	50 U	1 U	1 U	**0.35 J**	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**31500 =**	**218 =**	**110 =**	**1210 =**	**504 =**	**3 =**	**16.7 =**
Trichlorofluoromethane	ug/l				1 U			
Vinyl chloride	ug/l	50 U	1 U	1 U	1 U	1 U	1 U	1 U

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StationID:		D-31	D-32	D-33	D-33	D-33	D-33	D-35
Client Sample ID:		1717D31Q203	1717D32Q203	1717D33Q3	17D33Q402	1717D33Q103	1717D33Q203	17D35Q302
Lab Sample ID:		230509408	230509410	220700810	221007404	230113602	230509308	220604109
Date Collected:		06/05/2003	06/05/2003	07/10/2002	10/08/2002	01/22/2003	06/05/2003	07/09/2002
Parameter	**Units**							
Miscellaneous Parameters								
Chloride	mg/l	**4.68 =**	**3.61 =**	**9.78 =**	**21.6 =**	**9.13 =**	**4.34 =**	**24.6 =**
Volatile Organic Constituents								
1,1,1,2-Tetrachloroethane	ug/l							
1,1,1-Trichloroethane	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	10 U	**3.5 J**	10 U	5 U	**0.83 J**
1,1-Dichloroethane	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	**7.4 =**
1,1-Dichloroethene	ug/l	1 U	**0.64 J**	10 U	10 U	10 U	5 U	**1.4 =**
1,1-Dichloropropene	ug/l							
1,2,3-Trichlorobenzene	ug/l							
1,2,3-Trichloropropane	ug/l							
1,2,4-Trichlorobenzene	ug/l							
1,2,4-Trimethylbenzene	ug/l							
1,2-Dibromo-3-chloropropane	ug/l							
1,2-Dibromoethane(EDB)	ug/l							
1,2-Dichlorobenzene	ug/l							
1,2-Dichloroethane	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
1,3,5-Trimethylbenzene	ug/l							
1,3-Dichlorobenzene	ug/l							
1,3-Dichloropropane	ug/l							
1,4-Dichlorobenzene	ug/l							
1-Chlorohexane	ug/l							
2,2-Dichloropropane	ug/l							
2-Butanone	ug/l	2 U	2 U	50 U	50 U	40 U	10 U	5 U
2-Chlorotoluene	ug/l							
2-Hexanone	ug/l	2 U	2 U	50 U	50 U	40 U	10 U	5 U
4-Chlorotoluene	ug/l							
4-Isopropyltoluene	ug/l							
4-Methyl-2-pentanone	ug/l	2 U	2 U	50 U	50 U	40 U	10 U	5 U
Acetone	ug/l	4 U	4 U	100 U	100 U	40 U	20 U	10 U
Benzene	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
Bromobenzene	ug/l							
Bromochloromethane	ug/l							
Bromodichloromethane	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	**0.55 J**
Bromoform	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
Bromomethane	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
Carbon disulfide	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
Carbon tetrachloride	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
Chlorobenzene	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
Chloroethane	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
Chloroform	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	**1.9 =**
Chloromethane	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
cis-1,2-Dichloroethene	ug/l	1 U	1 U	**19.4 =**	**77.7 =**	**34.3 =**	**11.4 =**	**45.8 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
Dibromochloromethane	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	**0.32 J**
Dibromomethane	ug/l							
Dichlorodifluoromethane	ug/l							
Ethylbenzene	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
Hexachlorobutadiene	ug/l							
Isopropylbenzene (Cumene)	ug/l							
Methylene chloride	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
MTBE	ug/l	**0.57 J**	1 U	10 U	10 U	10 U	5 U	1 U
n-Butylbenzene	ug/l							
n-Propylbenzene	ug/l							
Naphthalene	ug/l							
o-Xylene	ug/l							
p,m-Xylene	ug/l							
Xylene (total)	ug/l	3 U	3 U	20 U	20 U	30 U	15 U	2 U
sec-Butylbenzene	ug/l							
Styrene	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
tert-Butylbenzene	ug/l							
Tetrachloroethene	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
Toluene	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
trans-1,2-Dichloroethene	ug/l	1 U	1 U	10 U	**2.8 J**	**1.9 J**	5 U	**1.2 =**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	1 U
Trichloroethene	ug/l	**5.4 =**	**11.6 =**	**5030 =**	**13700 =**	**11400 =**	**3560 =**	**1090 =**
Trichlorofluoromethane	ug/l							
Vinyl chloride	ug/l	1 U	1 U	10 U	10 U	10 U	5 U	**1.5 =**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

StationID:		D-35	D-35	D-35	D-37	D-37	D-37	D-37
Client Sample ID:		717D35Q402	1717D35Q103	1717D35Q203	17D37Q302	717D37Q402	1717D37Q103	1717D37Q203
Lab Sample ID:		221008602	230113609	230508309	220604108	221008609	230113610	230508308
Date Collected:		10/09/2002	01/22/2003	06/04/2003	07/09/2002	10/09/2002	01/22/2003	06/04/2003
Parameter	**Units**							
Miscellaneous Parameters								
Chloride	mg/l	**16.7 =**	**14.3 =**	**10.6 =**	**19.9 =**	**22.7 =**	**22.9 =**	**18.3 =**
Volatile Organic Constituents								
1,1,1,2-Tetrachloroethane	ug/l							
1,1,1-Trichloroethane	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
1,1,2,2-Tetrachloroethane	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
1,1,2-Trichloroethane	ug/l	10 U	1 U	5 U	**0.8 J**	**3.6 =**	**4.1 =**	**2.7 J**
1,1-Dichloroethane	ug/l	**10.6 =**	**11 =**	**16.1 =**	**11.1 =**	**22.4 =**	**26.7 =**	**14.2 =**
1,1-Dichloroethene	ug/l	10 U	**4.5 =**	**5.3 =**	**1.6 =**	**1.2 =**	**0.85 J**	**3.1 J**
1,1-Dichloropropene	ug/l							
1,2,3-Trichlorobenzene	ug/l							
1,2,3-Trichloropropane	ug/l							
1,2,4-Trichlorobenzene	ug/l							
1,2,4-Trimethylbenzene	ug/l							
1,2-Dibromo-3-chloropropane	ug/l							
1,2-Dibromoethane(EDB)	ug/l							
1,2-Dichlorobenzene	ug/l							
1,2-Dichloroethane	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
1,2-Dichloropropane	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
1,3,5-Trimethylbenzene	ug/l							
1,3-Dichlorobenzene	ug/l							
1,3-Dichloropropane	ug/l							
1,4-Dichlorobenzene	ug/l							
1-Chlorohexane	ug/l							
2,2-Dichloropropane	ug/l							
2-Butanone	ug/l	50 U	4 U	10 U	5 U	5 U	4 U	10 U
2-Chlorotoluene	ug/l							
2-Hexanone	ug/l	50 U	4 U	10 U	5 U	5 U	4 U	10 U
4-Chlorotoluene	ug/l							
4-Isopropyltoluene	ug/l							
4-Methyl-2-pentanone	ug/l	50 U	4 U	10 U	5 U	5 U	4 U	10 U
Acetone	ug/l	100 U	4 U	20 U	10 U	10 U	4 U	20 U
Benzene	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Bromobenzene	ug/l							
Bromochloromethane	ug/l							
Bromodichloromethane	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Bromoform	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Bromomethane	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Carbon disulfide	ug/l	10 U	1 U	5 U	**0.34 J**	1 U	1 U	5 U
Carbon tetrachloride	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Chlorobenzene	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Chloroethane	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Chloroform	ug/l	10 U	**0.96 J**	5 U	**1.1 =**	**0.71 J**	**0.84 J**	**0.83 J**
Chloromethane	ug/l	10 U	1 U	5 U	1 U	1 U	1 UJ	5 U
cis-1,2-Dichloroethene	ug/l	**73 =**	**69.8 =**	**138 =**	**86.1 =**	**246 =**	**256 =**	**171 =**
cis-1,3-Dichloropropene	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Dibromochloromethane	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Dibromomethane	ug/l							
Dichlorodifluoromethane	ug/l							
Ethylbenzene	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Hexachlorobutadiene	ug/l							
Isopropylbenzene (Cumene)	ug/l							
Methylene chloride	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
MTBE	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
n-Butylbenzene	ug/l							
n-Propylbenzene	ug/l							
Naphthalene	ug/l							
o-Xylene	ug/l							
p,m-Xylene	ug/l							
Xylene (total)	ug/l	20 U	3 U	15 U	2 U	2 U	3 U	15 U
sec-Butylbenzene	ug/l							
Styrene	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
tert-Butylbenzene	ug/l							
Tetrachloroethene	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Toluene	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
trans-1,2-Dichloroethene	ug/l	10 U	**2.7 =**	**3.6 J**	**3 =**	**8.2 =**	**11.3 =**	**3.9 J**
trans-1,3-Dichloropropene	ug/l	10 U	1 U	5 U	1 U	1 U	1 U	5 U
Trichloroethene	ug/l	**5020 =**	**4240 =**	**4080 =**	**958 =**	**1500 =**	**1300 =**	**2380 =**
Trichlorofluoromethane	ug/l							
Vinyl chloride	ug/l	10 U	**2.2 =**	**5 =**	**2.2 =**	**1.2 =**	1 U	5 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	D-38	I-20	I-25	I-25	I-25	I-25	I-30
	Client Sample ID:	1717D38Q203	1717I20Q203	17-17I25Q202	1717I25Q3	717I25Q402	1717I25Q103	17-17I30Q202
	Lab Sample ID:	230509403	230508304	220304701	220700819	221005701	230112904	220304708
	Date Collected:	06/05/2003	06/04/2003	04/09/2002	07/10/2002	10/07/2002	01/21/2003	04/09/2002
Parameter	**Units**							
Miscellaneous Parameters								
Chloride	mg/l	**15.7 =**	**12.1 =**	**12.4 =**	**18.5 =**	**11.8 =**	**13.3 =**	**8.21 =**
Volatile Organic Constituents								
1,1,1,2-Tetrachloroethane	ug/l			1 U				1 U
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	**1.4 =**	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/l	1 U	**11.6 =**	1 U	1 U	1 U	1 U	**1.9 =**
1,1-Dichloroethene	ug/l	1 U	**4.2 =**	1 U	1 U	1 U	1 U	**5.4 =**
1,1-Dichloropropene	ug/l			1 U				1 U
1,2,3-Trichlorobenzene	ug/l			1 U				1 U
1,2,3-Trichloropropane	ug/l			1 U				1 U
1,2,4-Trichlorobenzene	ug/l			1 U				1 U
1,2,4-Trimethylbenzene	ug/l			1 U				1 U
1,2-Dibromo-3-chloropropane	ug/l			1 U				1 U
1,2-Dibromoethane(EDB)	ug/l			1 U				1 U
1,2-Dichlorobenzene	ug/l			1 U				1 U
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l			1 U				1 U
1,3-Dichlorobenzene	ug/l			1 U				1 U
1,3-Dichloropropane	ug/l			1 U				1 U
1,4-Dichlorobenzene	ug/l			1 U				1 U
1-Chlorohexane	ug/l			1 U				1 U
2,2-Dichloropropane	ug/l			1 U				1 U
2-Butanone	ug/l	2 U	2 U		5 U	5 U	5 U	
2-Chlorotoluene	ug/l			1 U				1 U
2-Hexanone	ug/l	2 U	2 U		5 U	5 U	5 U	
4-Chlorotoluene	ug/l			1 U				1 U
4-Isopropyltoluene	ug/l			1 U				1 U
4-Methyl-2-pentanone	ug/l	2 U	2 U		5 U	5 U	5 U	
Acetone	ug/l	4 U	4 U		10 U	10 U	10 UJ	
Benzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/l			1 U				1 U
Bromochloromethane	ug/l			1 U				1 U
Bromodichloromethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	**0.45 J**
Bromoform	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	ug/l	1 U	1 U		1 U	1 U	1 U	
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/l	1 U	**0.6 J**	1 U	1 U	1 U	1 U	**0.77 J**
Chloromethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/l	**3.6 =**	**132 =**	**0.95 J**	**3.9 =**	**10.6 =**	**5.9 J**	1 U
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	ug/l			1 U				1 U
Dichlorodifluoromethane	ug/l			1 U				1 U
Ethylbenzene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l			1 U				1 U
Isopropylbenzene (Cumene)	ug/l			1 U				1 U
Methylene chloride	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MTBE	ug/l	1 U	1 U		1 U	1 U	1 U	
n-Butylbenzene	ug/l			1 U				1 U
n-Propylbenzene	ug/l			1 U				1 U
Naphthalene	ug/l			1 U				1 U
o-Xylene	ug/l			1 U				1 U
p,m-Xylene	ug/l			2 U				2 U
Xylene (total)	ug/l	3 U	3 U		2 U	2 U	3 U	
sec-Butylbenzene	ug/l			1 U				1 U
Styrene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l			1 U				1 U
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/l	**0.25 J**	**3.8 =**	1 U	1 U	**0.35 J**	**0.31 J**	1 U
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**31.6 =**	**3170 =**	**2.4 =**	**7.8 =**	**16 =**	**28 J**	**21.4 =**
Trichlorofluoromethane	ug/l			1 U				1 U
Vinyl chloride	ug/l	1 U	**4.4 =**	1 U	1 U	1 U	1 U	**2 =**

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	I-30	I-30	I-30	S-04	S-04	S-04	S-04	S-04
	Client Sample ID:	17I30Q302	717I30Q402	1717I30Q103	17-17S04Q202	17S4Q302	717S4Q402	1717S4Q103	1717S04Q203
	Lab Sample ID:	220703202	221010413	230118002	220305706	220604105	221008608	230113611	230508306
	Date Collected:	07/11/2002	10/10/2002	01/24/2003	04/10/2002	07/09/2002	10/09/2002	01/22/2003	06/04/2003
Parameter	**Units**								
Miscellaneous Parameters									
Chloride	mg/l	**7.11 =**	**7.75 =**	**7.64 =**	**23.5 =**	**18.8 =**	**17.7 =**	**17.9 =**	**9.92 =**
Volatile Organic Constituents									
1,1,1,2-Tetrachloroethane	ug/l				1 U				
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
1,1-Dichloroethane	ug/l	**0.87 J**	**4 =**	**1.1 =**	1 U	**0.3 J**	10 U	5 U	5 U
1,1-Dichloroethene	ug/l	**45.4 =**	**55 =**	**9.9 =**	1 U	1 U	10 U	5 U	**1.5 J**
1,1-Dichloropropene	ug/l				1 U				
1,2,3-Trichlorobenzene	ug/l				1 U				
1,2,3-Trichloropropane	ug/l				1 U				
1,2,4-Trichlorobenzene	ug/l				1 U				
1,2,4-Trimethylbenzene	ug/l				1 U				
1,2-Dibromo-3-chloropropane	ug/l				1 U				
1,2-Dibromoethane(EDB)	ug/l				1 U				
1,2-Dichlorobenzene	ug/l				1 U				
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
1,3,5-Trimethylbenzene	ug/l				1 U				
1,3-Dichlorobenzene	ug/l				1 U				
1,3-Dichloropropane	ug/l				1 U				
1,4-Dichlorobenzene	ug/l				1 U				
1-Chlorohexane	ug/l				1 U				
2,2-Dichloropropane	ug/l				1 U				
2-Butanone	ug/l	5 U	5 U	4 U		5 U	50 U	20 U	10 U
2-Chlorotoluene	ug/l				1 U				
2-Hexanone	ug/l	5 U	5 U	4 U		5 U	50 U	20 U	10 U
4-Chlorotoluene	ug/l				1 U				
4-Isopropyltoluene	ug/l				1 U				
4-Methyl-2-pentanone	ug/l	5 U	5 U	4 U		5 U	50 U	20 U	10 U
Acetone	ug/l	10 U	10 U	4 U		10 U	100 U	20 U	20 U
Benzene	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
Bromobenzene	ug/l				1 U				
Bromochloromethane	ug/l				1 U				
Bromodichloromethane	ug/l	1 U	1 U	1 U	1 U	**0.48 J**	10 U	5 U	5 U
Bromoform	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
Bromomethane	ug/l	1 U	1 U	1 UR	1 U	1 U	10 U	5 U	5 U
Carbon disulfide	ug/l	1 U	1 U	1 U		**0.43 J**	10 U	5 U	5 U
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
Chloroform	ug/l	1 U	1 U	1 U	**1.9 =**	**0.78 J**	10 U	5 U	**0.74 J**
Chloromethane	ug/l	1 U	1 U	1 UJ	1 U	1 U	10 U	5 UJ	5 U
cis-1,2-Dichloroethene	ug/l	1 U	**0.54 J**	**0.63 J**	1 U	**31.7 =**	**496 =**	**349 =**	**154 =**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
Dibromochloromethane	ug/l	1 U	1 U	1 U	1 U	**0.23 J**	10 U	5 U	5 U
Dibromomethane	ug/l				1 U				
Dichlorodifluoromethane	ug/l				1 U				
Ethylbenzene	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
Hexachlorobutadiene	ug/l				1 U				
Isopropylbenzene (Cumene)	ug/l				1 U				
Methylene chloride	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
MTBE	ug/l	1 U	1 U	1 U		1 U	10 U	5 U	5 U
n-Butylbenzene	ug/l				1 U				
n-Propylbenzene	ug/l				1 U				
Naphthalene	ug/l				1 U				
o-Xylene	ug/l				1 U				
p,m-Xylene	ug/l				2 U				
Xylene (total)	ug/l	2 U	2 U	3 U		2 U	20 U	15 U	15 U
sec-Butylbenzene	ug/l				1 U				
Styrene	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
tert-Butylbenzene	ug/l				1 U				
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
Toluene	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
trans-1,2-Dichloroethene	ug/l	1 U	1 U	1 U	1 U	**0.65 J**	**10.6 =**	**8.1 =**	**1.4 J**
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U
Trichloroethene	ug/l	**23.8 =**	**199 =**	**29.5 =**	**1.6 =**	**170 =**	**4120 =**	**4620 =**	**5290 =**
Trichlorofluoromethane	ug/l				1 U				
Vinyl chloride	ug/l	**3.5 =**	**3.9 =**	**1.2 =**	1 U	1 U	10 U	5 U	5 U

Appendix C. Data Summary Table - Phase II ISCO IRA Data Summary (July 2002 through June 2003)
Construction Documentation Report, IRA at SA-17.
NTC Orlando, Orlando, Florida

	StationID:	S-08	S-08	S-08	S-08
	Client Sample ID:	17-17S08Q202	1717S8Q3	17S8Q402	1717S8Q103
	Lab Sample ID:	220305707	220700816	221007403	230112909
	Date Collected:	04/10/2002	07/10/2002	10/08/2002	01/21/2003
Parameter	**Units**				
Miscellaneous Parameters					
Chloride	mg/l	**11.2 =**	**11.3 =**	**8.91 =**	**9.62 =**
Volatile Organic Constituents					
1,1,1,2-Tetrachloroethane	ug/l	1 U			
1,1,1-Trichloroethane	ug/l	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/l	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/l	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/l	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/l	1 U	1 U	1 U	1 U
1,1-Dichloropropene	ug/l	1 U			
1,2,3-Trichlorobenzene	ug/l	1 U			
1,2,3-Trichloropropane	ug/l	1 U			
1,2,4-Trichlorobenzene	ug/l	1 U			
1,2,4-Trimethylbenzene	ug/l	1 U			
1,2-Dibromo-3-chloropropane	ug/l	1 U			
1,2-Dibromoethane(EDB)	ug/l	1 U			
1,2-Dichlorobenzene	ug/l	1 U			
1,2-Dichloroethane	ug/l	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/l	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/l	1 U			
1,3-Dichlorobenzene	ug/l	1 U			
1,3-Dichloropropane	ug/l	1 U			
1,4-Dichlorobenzene	ug/l	1 U			
1-Chlorohexane	ug/l	1 U			
2,2-Dichloropropane	ug/l	1 U			
2-Butanone	ug/l		5 U	5 U	5 U
2-Chlorotoluene	ug/l	1 U			
2-Hexanone	ug/l		5 U	5 U	5 U
4-Chlorotoluene	ug/l	1 U			
4-Isopropyltoluene	ug/l	1 U			
4-Methyl-2-pentanone	ug/l		5 U	5 U	5 U
Acetone	ug/l		10 U	10 U	10 UJ
Benzene	ug/l	1 U	1 U	1 U	1 U
Bromobenzene	ug/l	1 U			
Bromochloromethane	ug/l	1 U			
Bromodichloromethane	ug/l	1 U	1 U	1 U	1 U
Bromoform	ug/l	1 U	1 U	1 U	1 U
Bromomethane	ug/l	1 U	1 U	1 U	1 U
Carbon disulfide	ug/l		1 U	1 U	1 U
Carbon tetrachloride	ug/l	1 U	1 U	1 U	1 U
Chlorobenzene	ug/l	1 U	1 U	1 U	1 U
Chloroethane	ug/l	1 U	1 U	1 U	1 U
Chloroform	ug/l	1 U	1 U	1 U	1 U
Chloromethane	ug/l	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/l	**0.22 J**	1 U	**0.7 J**	**0.85 J**
cis-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/l	1 U	1 U	1 U	1 U
Dibromomethane	ug/l	1 U			
Dichlorodifluoromethane	ug/l	1 U			
Ethylbenzene	ug/l	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/l	1 U			
Isopropylbenzene (Cumene)	ug/l	1 U			
Methylene chloride	ug/l	1 U	1 U	1 U	1 U
MTBE	ug/l		1 U	1 U	1 U
n-Butylbenzene	ug/l	1 U			
n-Propylbenzene	ug/l	1 U			
Naphthalene	ug/l	1 U			
o-Xylene	ug/l	1 U			
p,m-Xylene	ug/l	2 U			
Xylene (total)	ug/l		2 U	2 U	3 U
sec-Butylbenzene	ug/l	1 U			
Styrene	ug/l	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/l	1 U			
Tetrachloroethene	ug/l	1 U	1 U	1 U	1 U
Toluene	ug/l	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/l	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/l	1 U	1 U	1 U	1 U
Trichloroethene	ug/l	**48.8 =**	**13 =**	**55.5 =**	**45.2 =**
Trichlorofluoromethane	ug/l	1 U			
Vinyl chloride	ug/l	1 U	1 U	1 U	1 U