Kolak, Shari

Subject: LCCS -- Phase 2 Site Investigation Results and Phase 3 Well Installation Plan
Location: Dial-In Number (605) 475-2090, Passcode 8834113#

US EPA RECORDS CENTER REGION 5
548204

Start: Thu 2/11/2016 1 30 PM
End: Thu 2/11/2016 3 00 PM

Recurrence: (none)

Meeting Status: Accepted

Organizer: Leo Brausch

Entire
Interim Site Investigation Report

Conference call to review the findings from the Phase 2 HPT/VAP Investigations and the plans for the Phase 3 groundwater monitoring well installation program. A hard copy of the interim report is being sent to USEPA and IEPA Please contact me if you have questions. Thanks.

in

Leo M. Brausch
Office: (704) 246-7266
Cell: (412) 720-8549
Fax. (980) 339-3017

~~Prosecutorial in~~ Records Center

- Leo will ~~[illegible]~~ send us proposed well location map with well screen lengths

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LAKE CALUMET CLUSTER SITE

Interim Site Investigation Report

Agenda

- Discuss data and selection of site COCs
- Select well locations
- Per project schedule, well installation to begin March 7

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Data

- 63 vertical aquifer profile (VAP) samples were collected and analyzed for ammonia, volatile organic compounds (VOCs) and metals
- Screened data against Illinois 35 IAC Part 620 Class 1 and Class 2 groundwater standards and Illinois Numerical and Derived Surface Water Quality Standards
  - Benzene exceeded Part 620 Class 2 standard (25 ug/L) at many locations and exceeded Illinois surface water standards (310 ug/L) at HPT/VAP-05 and HPT/VAP-22
  - Ammonia detected above Illinois EPA water quality threshold of 15 mg/L across site, concentrated in southeastern corner
  - Toluene, ethylbenzene, xylene, cis-1,2-dichlorethene, and trichloroethene were detected above Part 620 Class 1 standards at HPT/VAP-22

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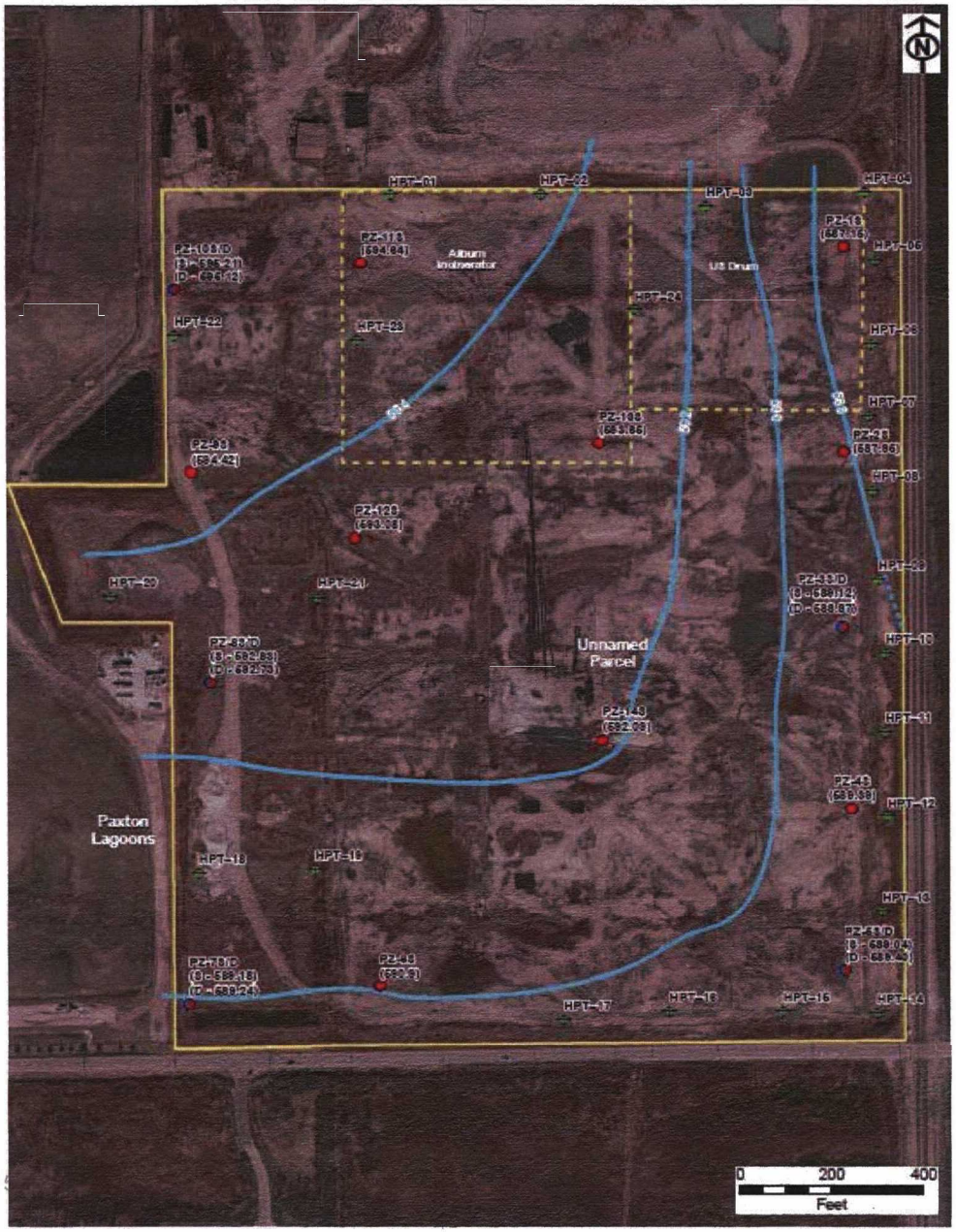

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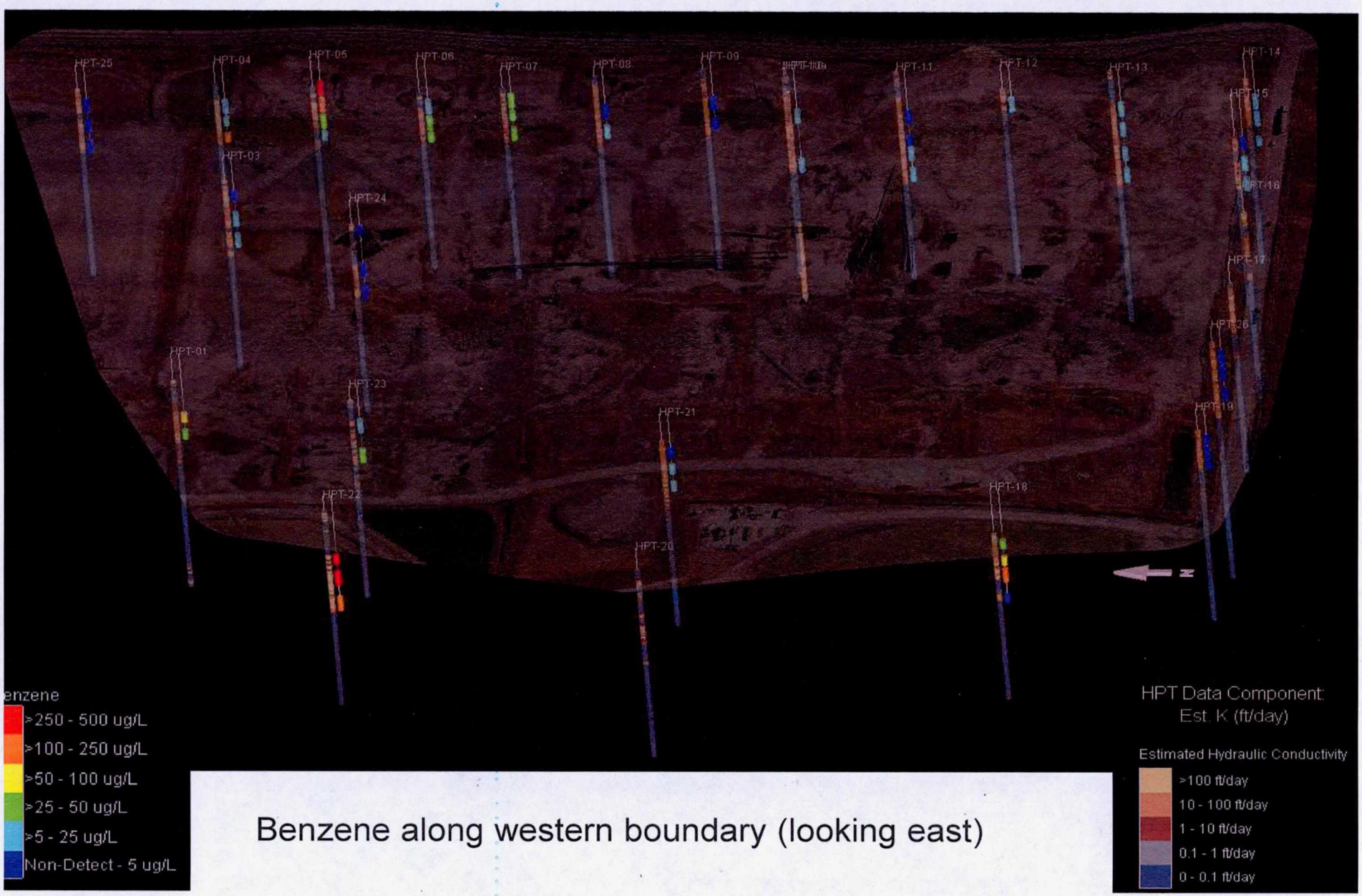

Benzene along western boundary (looking east)

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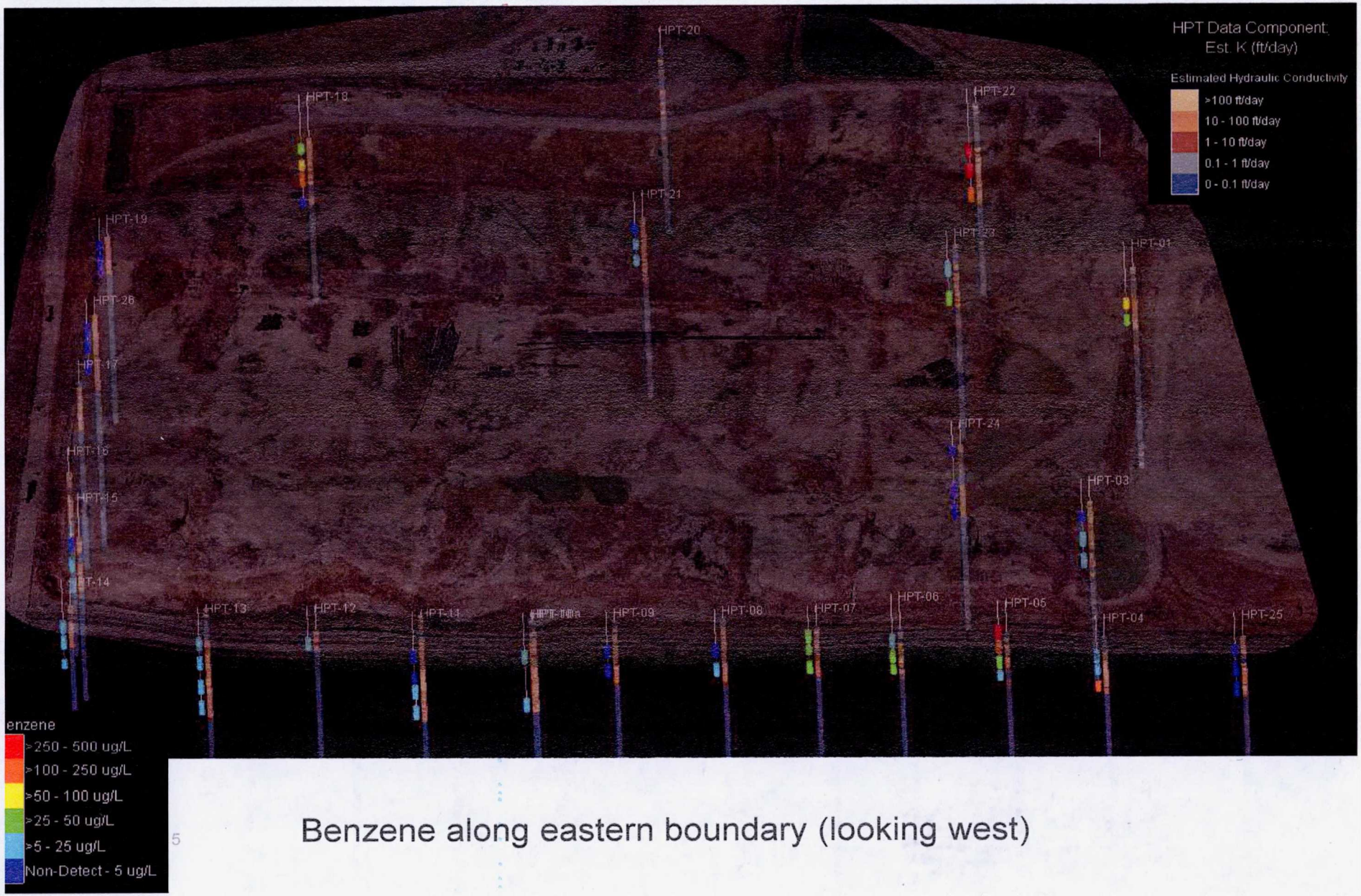

Benzene along eastern boundary (looking west)

gure 1A
istern Boundary – Estimated Hydraulic Conductivity and Benzene Analytical Data
ke Calumet Cluster Site
icago, Illinois

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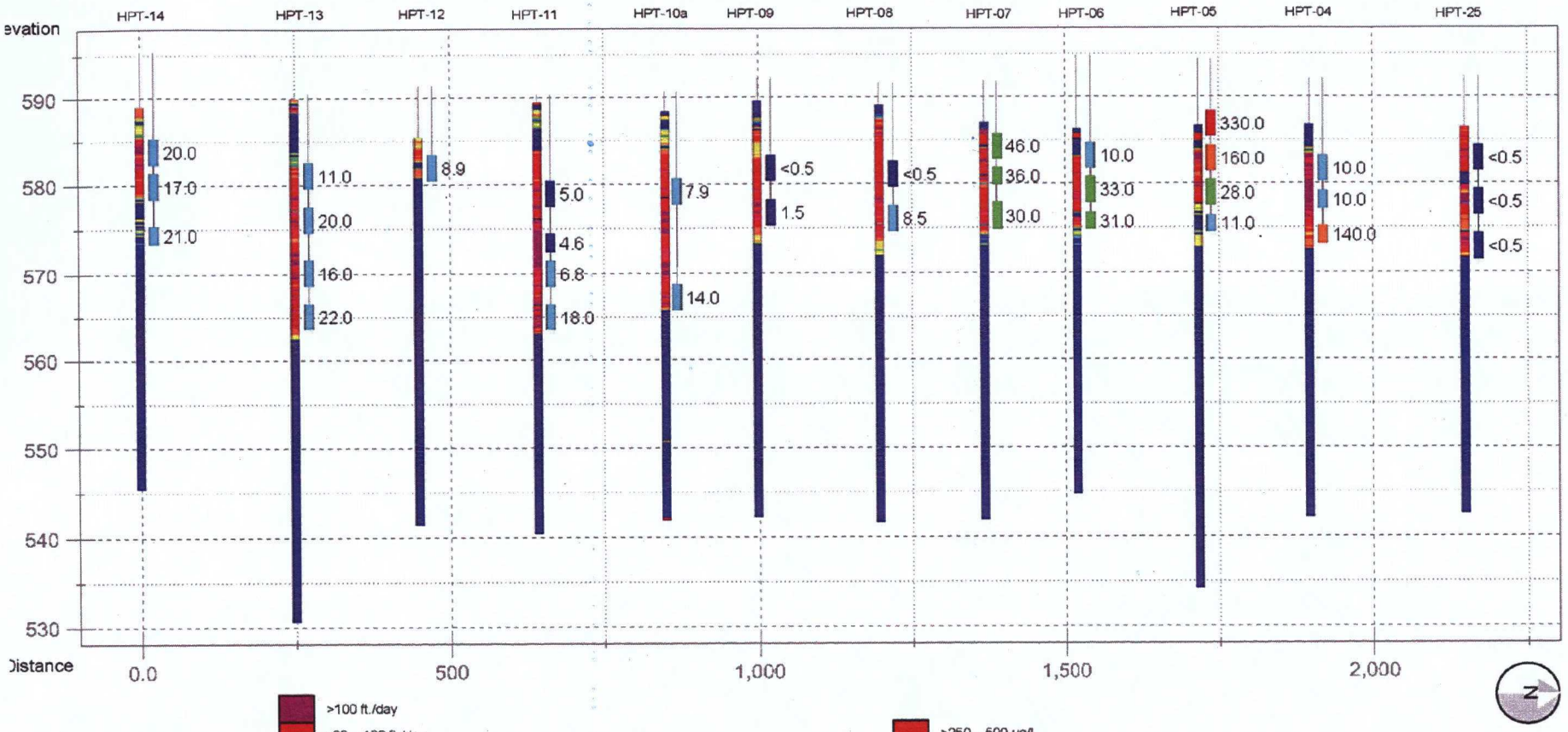

Estimated Hydraulic Conductivity

- >100 ft./day
- >30 – 100 ft./day
- >10 – 30 ft./day
- >3 – 10 ft./day
- >1 – 3 ft./day
- >0.3 – 1 ft./day
- 0 – 0.3 ft./day

Benzene Concentration

- >250 – 500 ug/L
- >100 – 250 ug/L
- >50 – 100 ug/L
- >25 – 50 ug/L
- >5 – 25 ug/L
- Non-Detect – 5 ug/L

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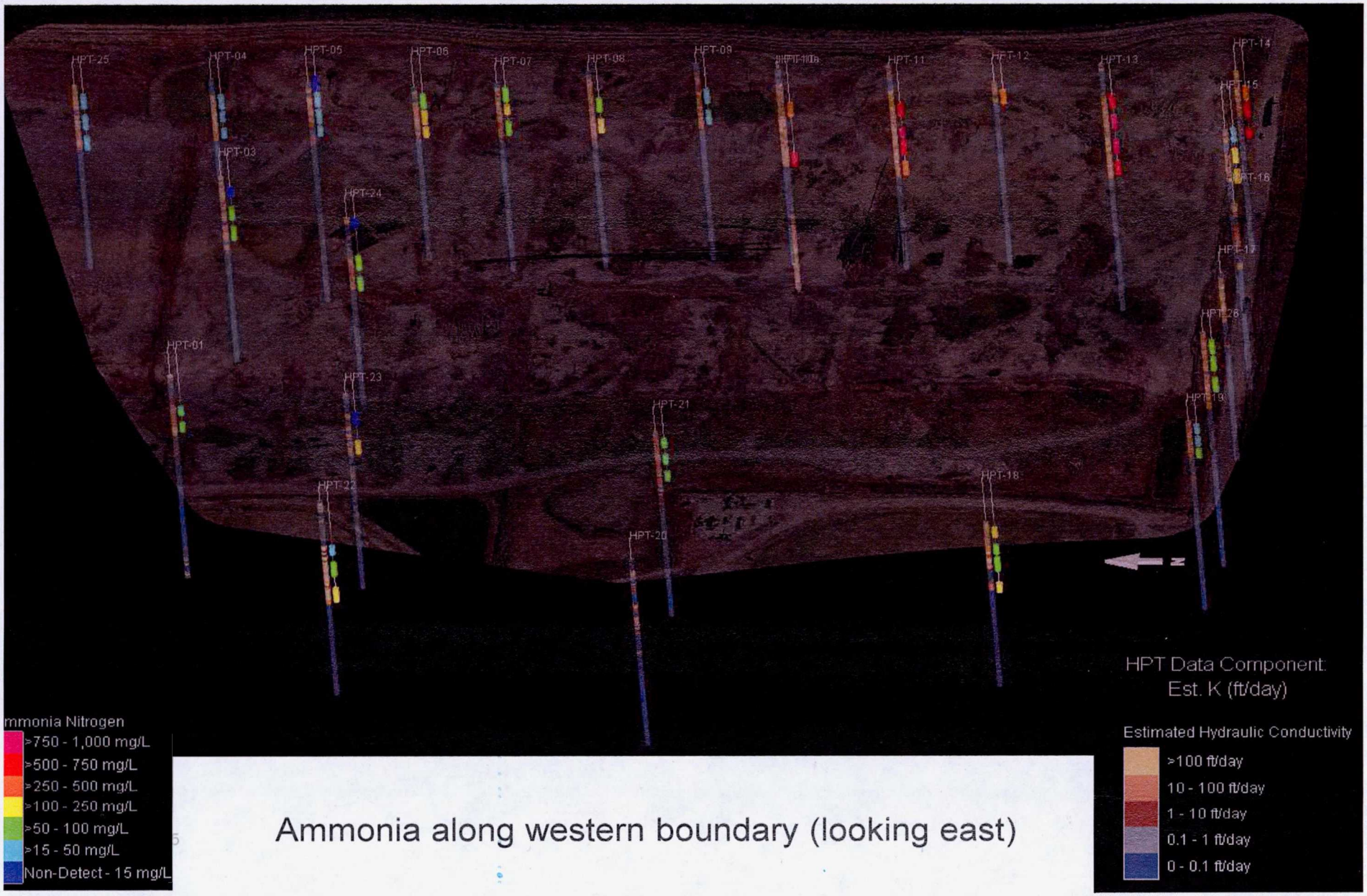

Ammonia along western boundary (looking east)

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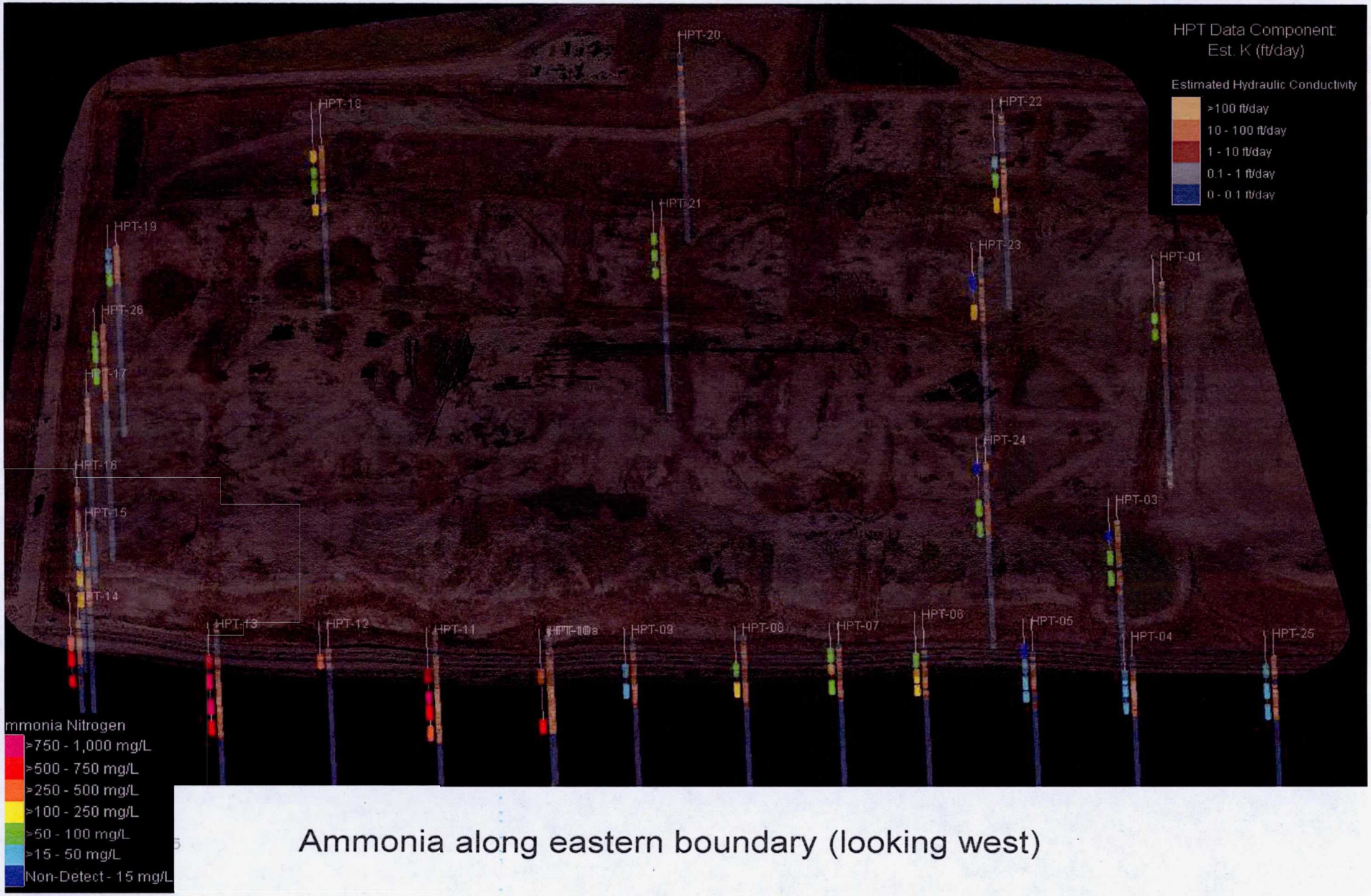

Ammonia along eastern boundary (looking west)

gure 1B
astern Boundary – Estimated Hydraulic Conductivity and Ammonia Nitrogen Analytical Data
ke Calumet Cluster Site
icago, Illinois

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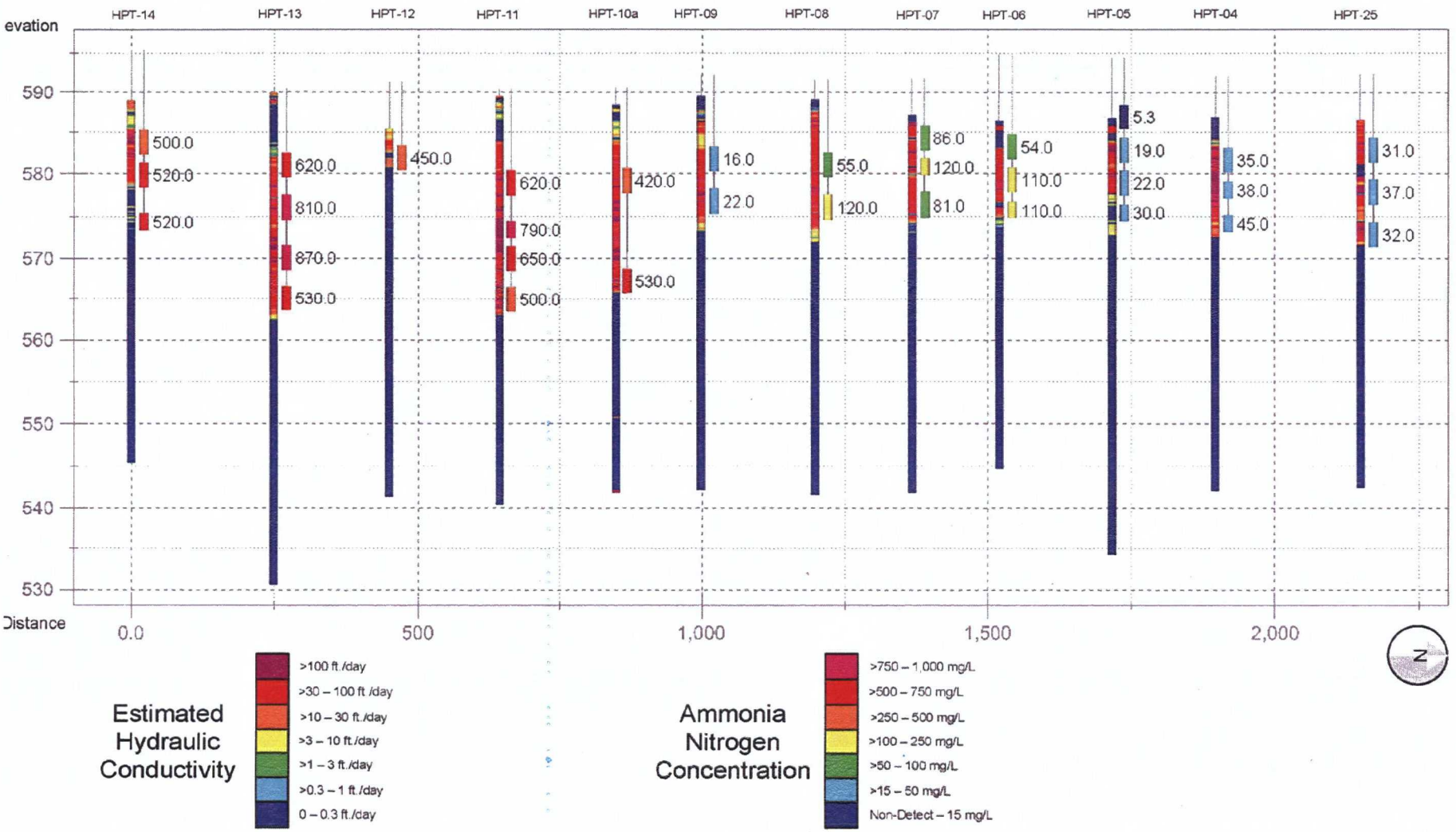

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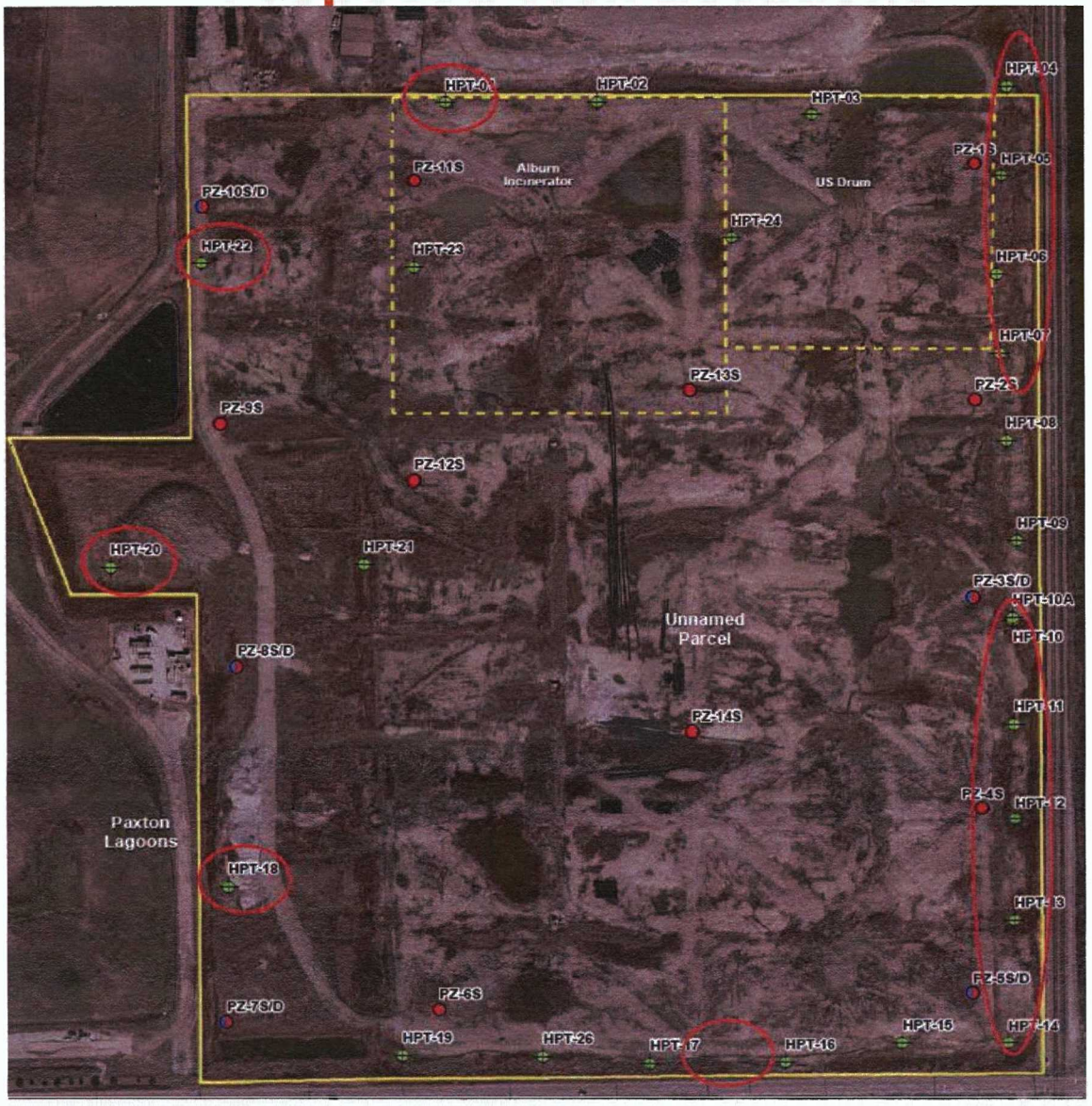
Proposed Well Locations



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Proposed Well Locations

- Two wells in the northeast corner
  - Elevated benzene from HPT-04 to HPT-07
- Two wells in southeast corner
  - Elevated ammonia from HPT-10 to HPT-14
- One well near HPT-16 and 17
  - Downgradient well
- One well near HPT-18, one near HPT-22, and one near HPT-01
  - Upgradient wells with elevated benzene
- One well near HPT-20
  - No water in well during VAP sampling
- Nine wells total, within original estimate of 8 to 12

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Summary of Work Completed

PZ1 – encountered clay?

20?

shallow?

- 19 Piezometers installed at 14 locations

~~5 deep pair w/ shallow?~~

- Development completed
- Survey completed
- First gauging completed on 10/12/15
- Second gauging completed on 10/19/15

no offsite wells?

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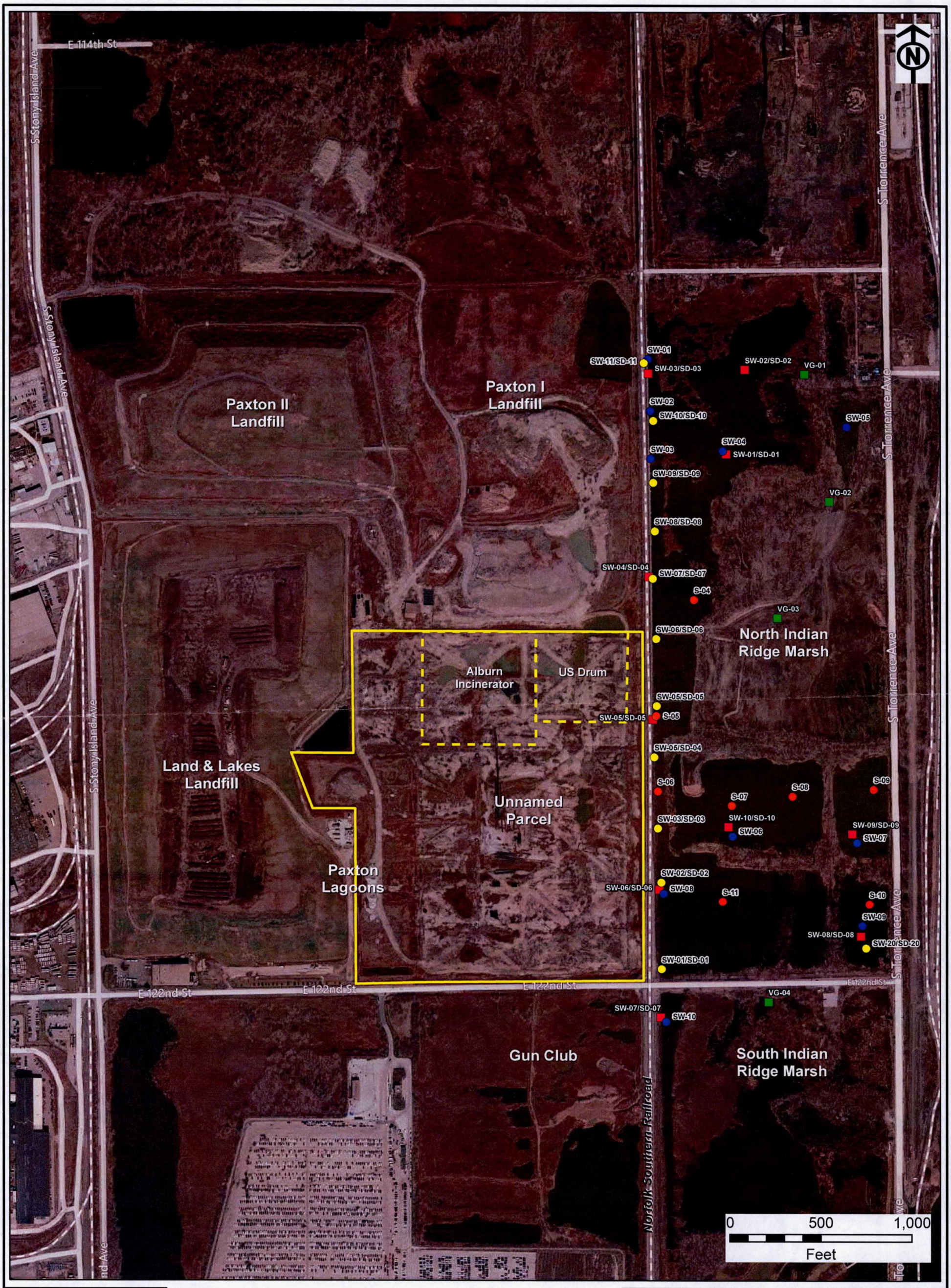
LAKE CALUMET CLUSTER SITE

RI/FS Work Plan Implementation Update

October 21, 2015

City: CHI User: gmckinney
Path: I:\LCCS\MXD\LCCS_MWLocsSWSD.mxd



LEGEND

- SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS COLLECTED BY ECOLOGY AND ENVIRONMENT (1999)
- SURFACE WATER SAMPLE LOCATIONS COLLECTED BY HARZA ENGINEERING (2001)
- SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS COLLECTED BY MWH (2002) S-07 - S-10 / SE010
- SURFACE WATER WATER, SEDIMENT, AND TOXICITY BIOASSAY SAMPLE LOCATIONS COLLECTED BY TETRA TECH (2009) SW-10 - S - SW-10
- VEGETATIVE SAMPLE LOCATIONS COLLECTED BY TETRA TECH (2009)
- LAKE CALUMET CLUSTER SITE BOUNDARY

Notes:
-All sampling locations are estimated based on previously published reports.
-Bing Roads Base Image Source: ArcGIS Online Services, Access date: 12/13/2012, via ArcGIS v. 10. This image is not for re-sale or distribution outside of the use of this PDF.

LAKE CALUMET CLUSTER SITE
CHICAGO, ILLINOIS

PREVIOUS SURFACE WATER, SEDIMENT, AND VEGETATIVE SAMPLING LOCATIONS IN INDIAN RIDGE MARSH

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FIGURE
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