AGENDA
For
Meeting with Koch Nitrogen Company and KDHE
May 15, 2009
8:30 a.m. - ?
Room 3130
EPA Regional Office
901 N. 5th St., KCKS 66101

Introductions:

Green Technologies:

- **Wind Energy**
- **Solar Energy**

IMWP-Groundwater Recovery System Optimization comment letter discussion:

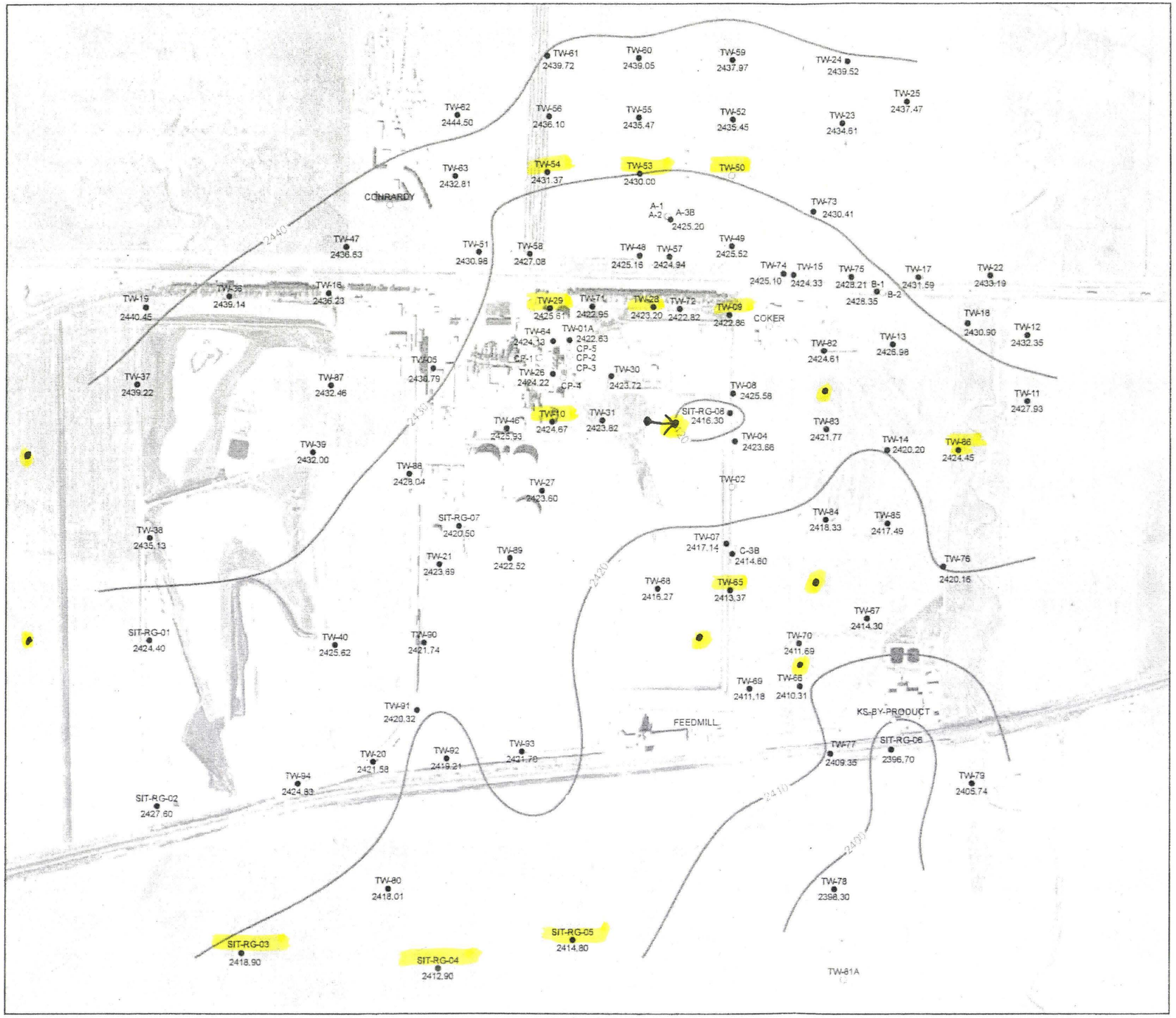
Questions:

Wrap-Up:

RCRA
529552

Sign In Sheet
FOR
EPA/KOCH/KDHE MEETING
May 15, 2009
EPA Regional Office
Conference Room 3130
8:30 - ?

Name	Company	Phone Number	E-Mail Address
Gary LeRock	Koch Nitrogen Company	(620) 227-8631 x 300	lerockg@kochind.com
Tom Siegrist	Koch Fertilizer	(316) 828-6757	siegristt@kochind.com
AnnieLaurie Burke	Koch Nitrogen Company	620-227-8631 x350	burkea@kochind.com
Cory Zellers	Koch Nitrogen Company	620-227-8631 x 140	zellersc@kochind.com
Everett Spellman	KDHE / BWM	~~785~~-296-1616	espellma@kdheks.gov
Randy Rohrman	U.S. EPA	913-551-7543	rohrman.wray@epa.gov
Andrea R. Stone	U.S. EPA	913-551-7662	stone.andrear@epa.gov



LEGEND

- MONITORING WELL GAUGED OCTOBER 30, 2006 ALONG WITH GROUNDWATER ELEVATION (FT AMSL)

  OTHER WELL WITHIN STUDY AREA NOT USED FOR OCTOBER 30, 2006 POTENTIOMETRIC SURFACE CONTOURING

— POTENTIOMETRIC SURFACE CONTOUR (FT AMSL) - OCTOBER 30, 2006

NOTE:

THIS GAUGING EVENT OCCURRED WHEN ALL PUMPING WELLS WERE TURNED OFF.

-N-

1,000 0 1,000

Feet

GROUNDWATER ELEVATIONS AND POTENTIOMETRIC SURFACE CONTOURS - OCTOBER 30, 2006

PREPARED BY:

KOCH

KOCH NITROGEN COMPANY

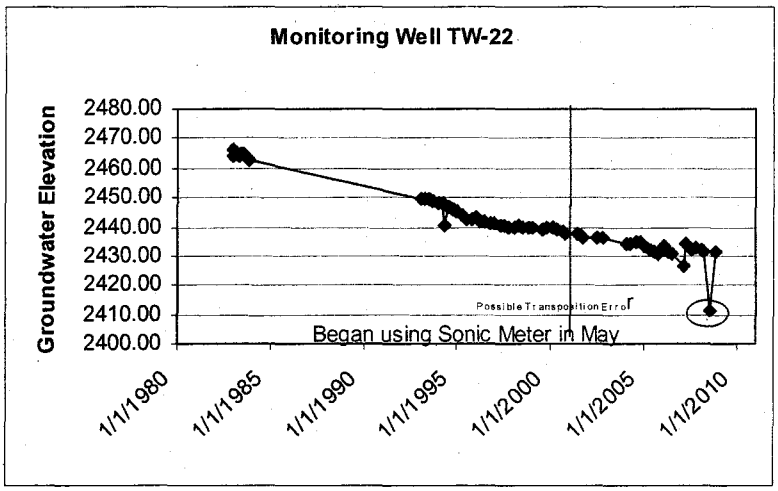
11559 US HIGHWAY 50 - P.O. BOX 1317
DODGE CITY KS 67801

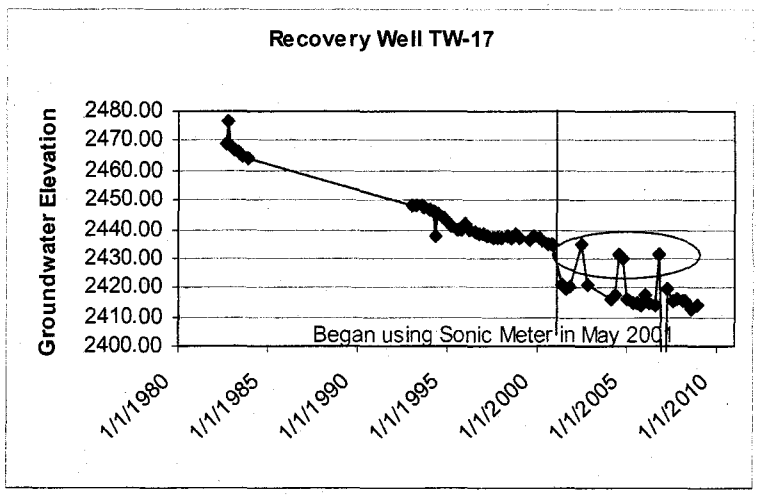
PROJECT.	FIGURE NO. X
DATE. NOVEMBER 2008	FILE NO.

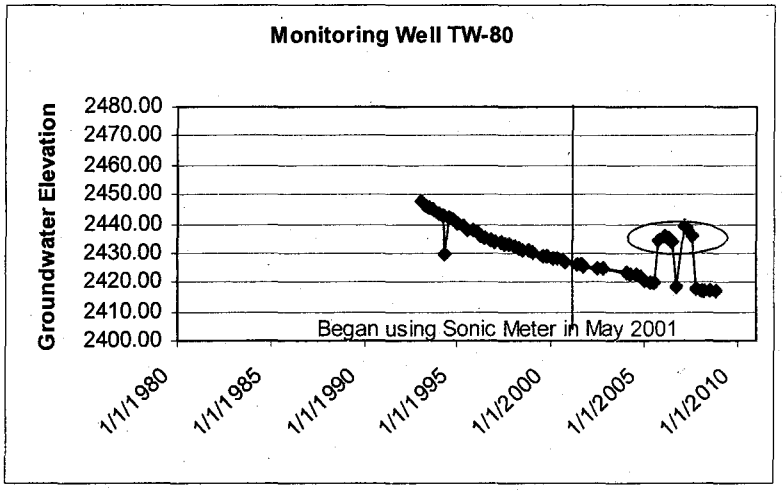
Well located half-way between South of KNC property + Maxwell property (Maxwell property not shown on this map)

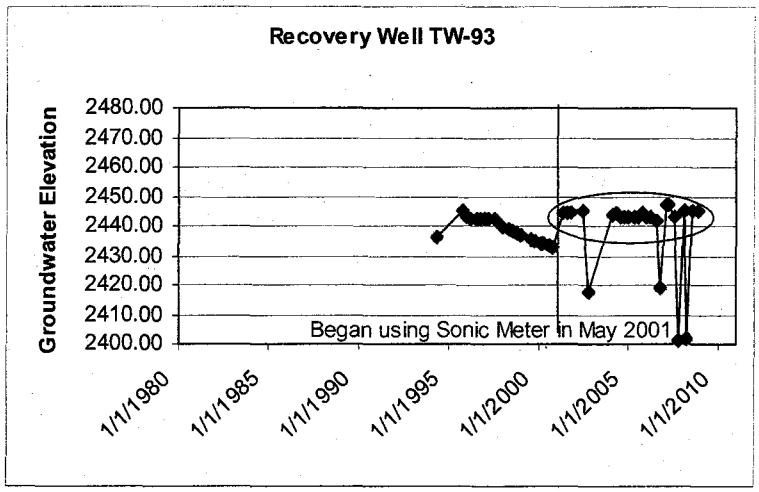
Well located South-Southeast of Bogner's property. (Bogner property not shown on this map)

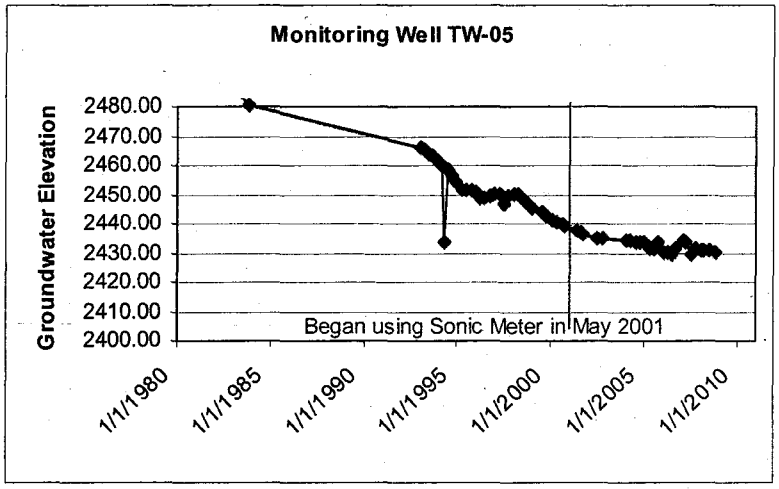
SWL Meter vs Sonic Meter

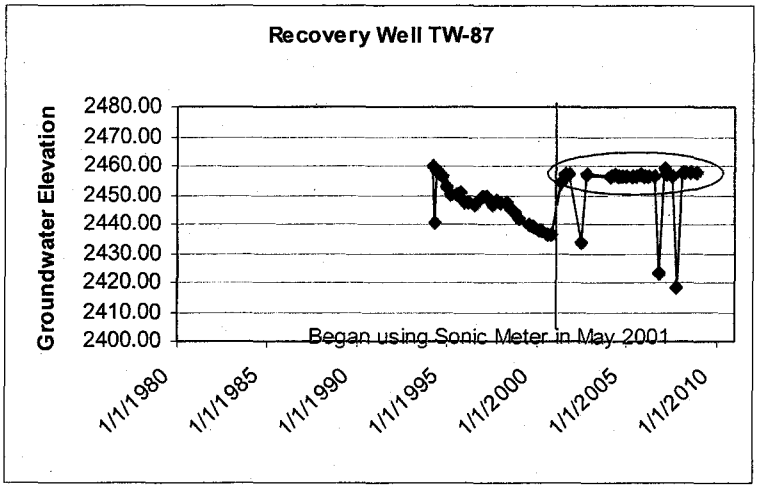




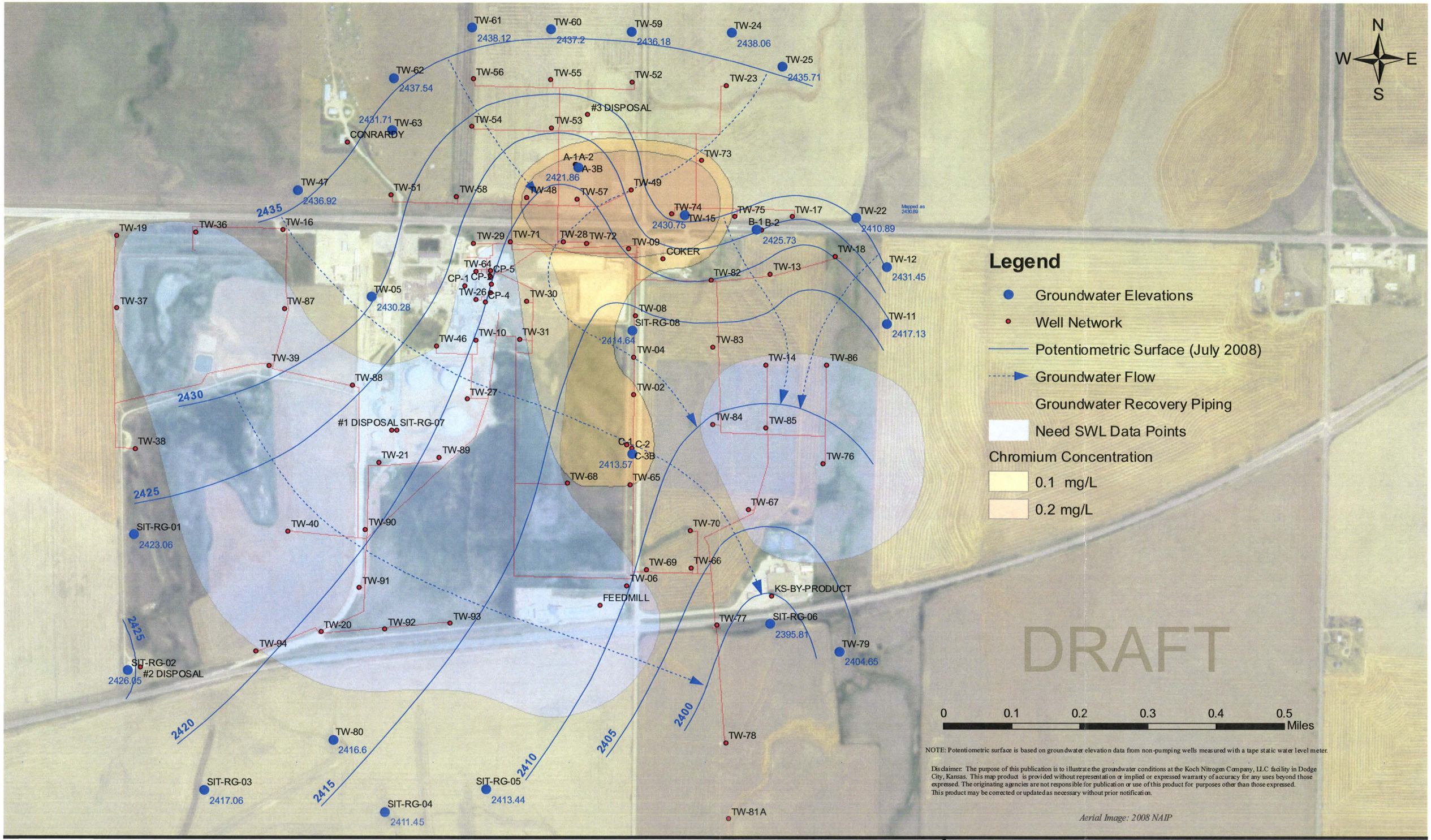








Assumptions: Monitoring wells are measured with the SWL meter and recovery wells are measured with the Sonic Meter. Monitoring wells do not have operating pumps.



NOTE: Potentiometric surface is based on groundwater elevation data from non-pumping wells measured with a tape static water level meter.

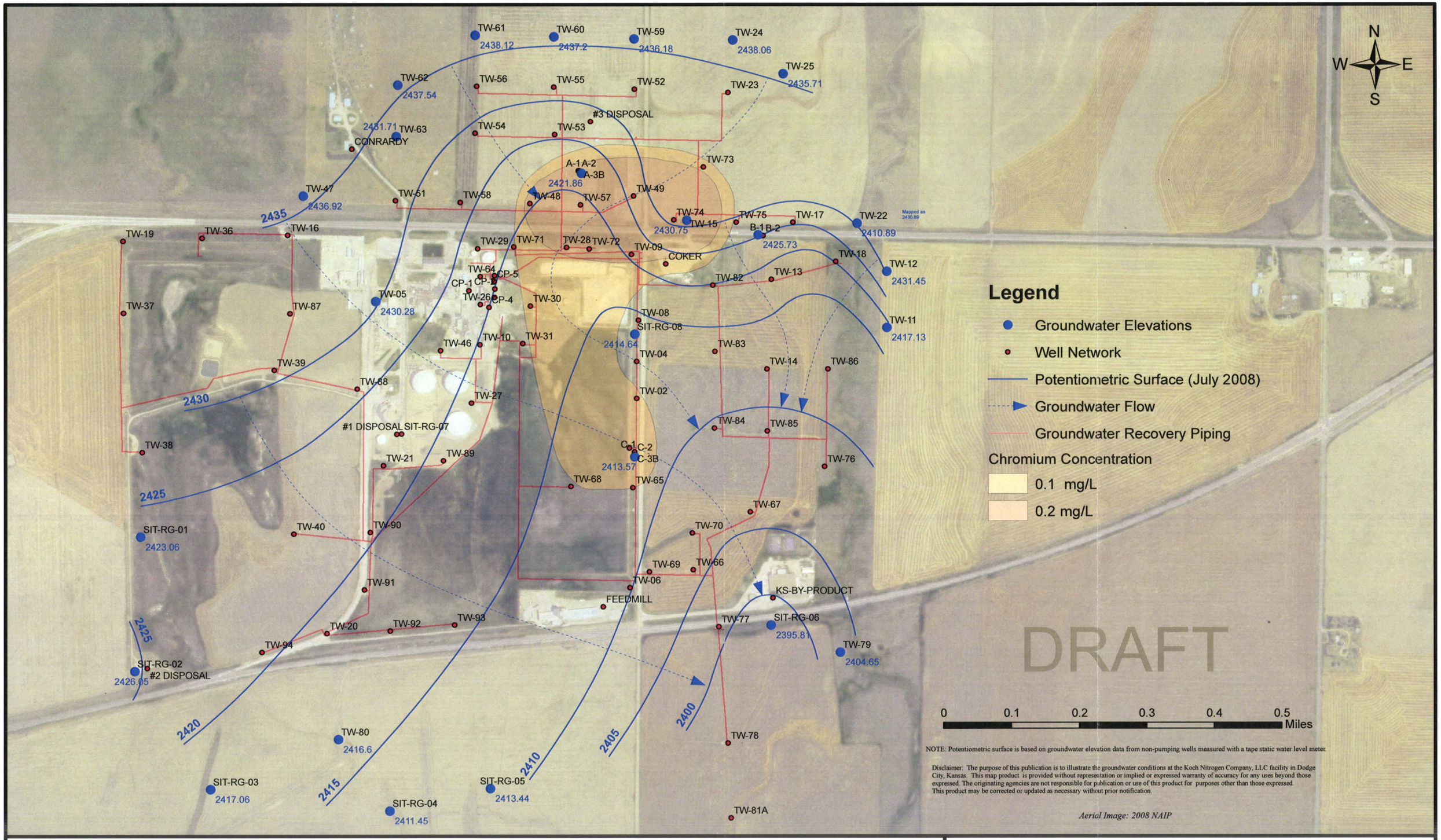
Disclaimer: The purpose of this publication is to illustrate the groundwater conditions at the Koch Nitrogen Company, LLC facility in Dodge City, Kansas. This map product is provided without representation or implied or expressed warranty of accuracy for any uses beyond those expressed. The originating agencies are not responsible for publication or use of this product for purposes other than those expressed. This product may be corrected or updated as necessary without prior notification.

Aerial Image: 2008 NAIP

Kansas Department of Health and Environment

Potentiometric Surface Map
Koch Nitrogen Company, LLC
Dodge City, Kansas

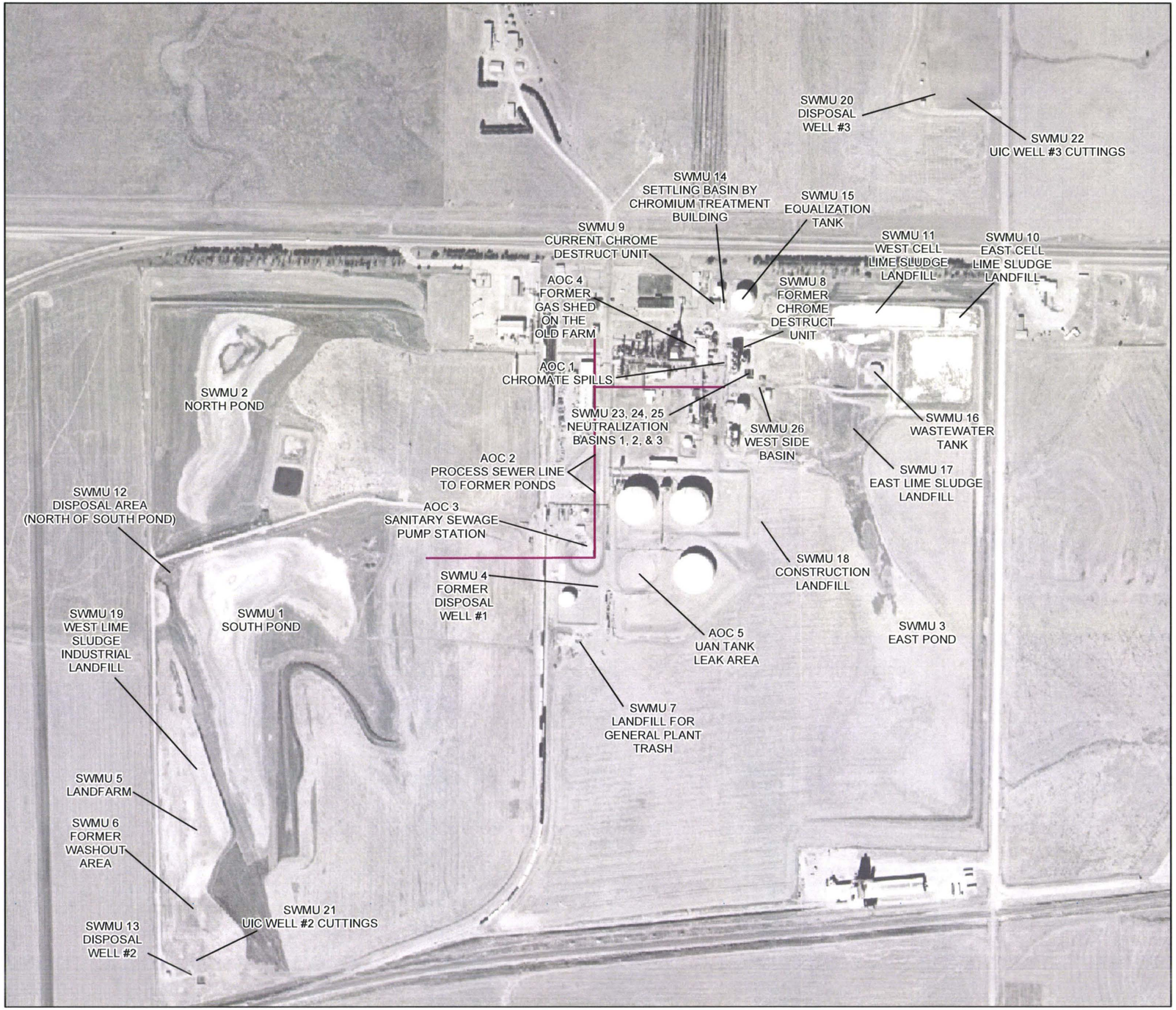
Figure 1



Kansas Department of Health and Environment

Potentiometric Surface Map
Koch Nitrogen Company, LLC
Dodge City, Kansas

Figure 1



LEGEND

SWMU LIST

1. SOUTH POND
2. NORTH POND
3. EAST POND
4. FORMER DISPOSAL WELL #1
5. LAND FARM
6. FORMER WASHOUT AREA
7. LANDFILL FOR GENERAL PLANT TRASH
8. FORMER CHROME DESTRUCT UNIT
9. CURRENT CHROME DESTRUCT UNIT
10. EAST CELL OF LIME SLUDGE POND
11. WEST CELL OF LIME SLUDGE POND
12. DISPOSAL AREA (NORTH OF SOUTH POND)
13. DISPOSAL WELL #2
14. SETTLING BASIN BY CHROMIUM TREATMENT BUILDING
15. EQUALIZATION TANK
16. WASTEWATER TANK
17. EAST LIME SLUDGE LANDFILL
18. CONSTRUCTION LANDFILL
19. WEST LIME SLUDGE INDUSTRIAL LANDFILL
20. INJECTION WELL #3
21. UIC WELL #2 CUTTINGS
22. UIC WELL #3 CUTTINGS
23. NEUTRALIZATION BASIN #1
24. NEUTRALIZATION BASIN #2
25. NEUTRALIZATION BASIN #3
26. WEST SIDE BASIN

AOC LIST

1. CHROMATE SPILLS
2. PROCESS SEWER LINE TO FORMER PONDS
3. SANITARY SEWAGE PUMP STATION
4. FORMER GAS SHED ON THE OLD FARM
5. UAN STORAGE TANK LEAK
6. DAKOTA FORMATION (NOT SHOWN)

-N-

500 0 500

Feet

SWMU AND AOC MAP

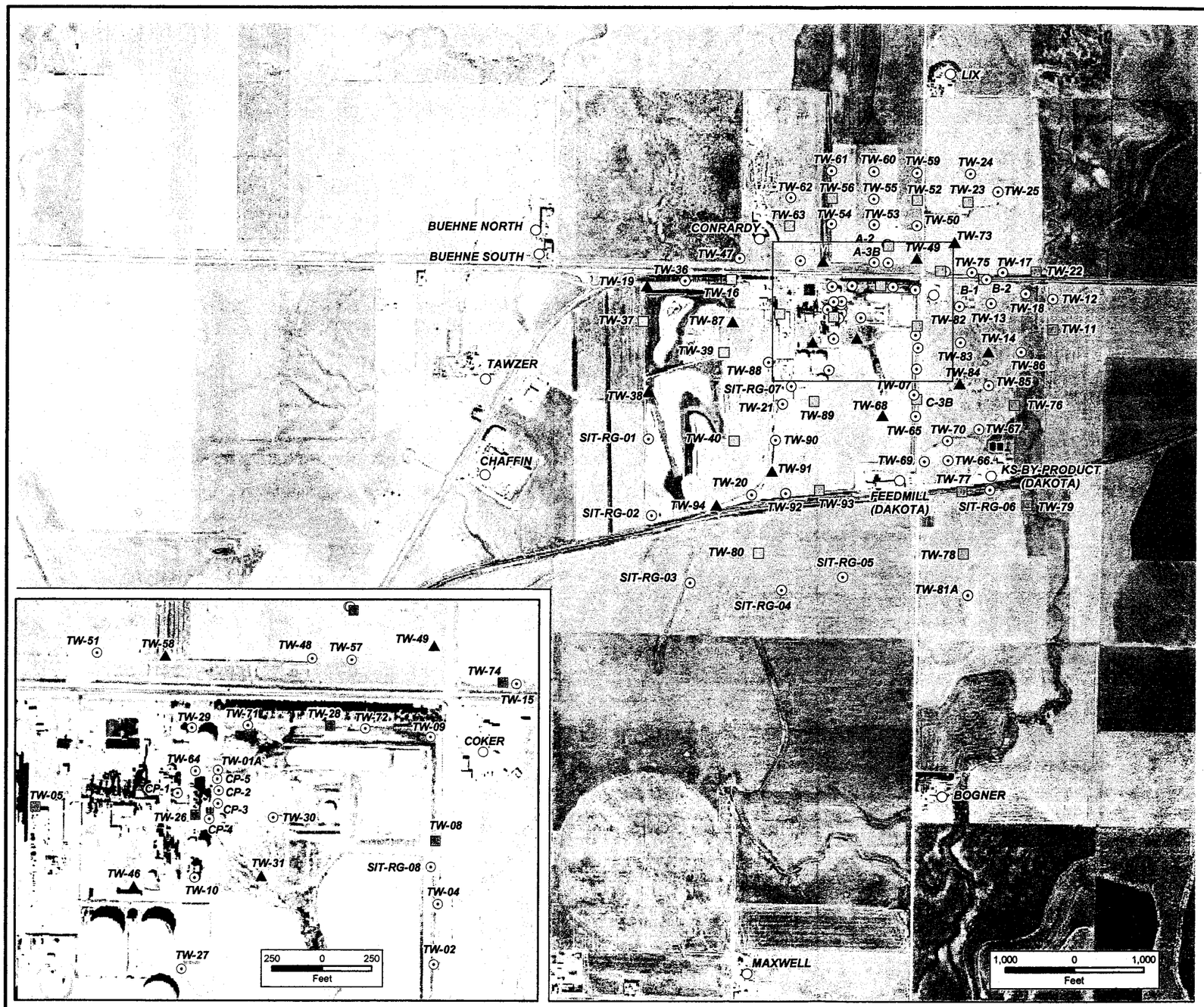
PREPARED BY:

KOCH

KOCH NITROGEN COMPANY

11559 US HIGHWAY 50 - P.O. BOX 1337
DODGE CITY, KS 67801

PROJECT NO. FR0760	FIGURE NO. 1
DATE. SEPTEMBER 2008	FILE NO.



LEGEND

- ▣ WELL MONITORED QUARTERLY
- ▲ WELL MONITORED SEMI-ANNUALLY
- ○ PRIVATE WELL - MONITORED QUARTERLY
- ⊙ WELL PRIMARILY USED FOR WATER LEVEL GAUGING

-N-

GROUND WATER WELL NETWORK

PREPARED BY:

KOCH
KOCH NITROGEN COMPANY
11559 US HIGHWAY 50 - P.O. BOX 1337
DODGE CITY, KS 67801

PROJECT NO.	FIGURE NO. 1-2
DATE. FEBRUARY 2007	FILE NO.

What is Green Remediation?

Green remediation is the practice of considering all environmental impacts of remediation activities at every stage of the remedial process in order to maximize the net environmental benefit of a cleanup.

By using natural resources and energy efficiently, reducing negative impacts on the environment, minimizing or eliminating pollution at its source, and reducing waste to the greatest extent possible, the incorporation of sustainability principles can help increase the environmental, economic, and social benefits of site cleanups. Green remediation reduces the demand placed on the environment during the cleanup process, otherwise known as the "footprint" of remediation, and can prevent unintended additional environmental damage.

Green remediation strategies can be utilized during every phase of a site, from the investigation to optimization of a long-term remedy. The environmental impacts of a site can be reduced through evaluation of the following main areas:

- Energy
- Air
- Water
- Land and ecosystems
- Materials and waste
- Stewardship

It is important to note all remedies must still meet the threshold criteria that they be protective of human health and the environment and that they comply with all applicable or relevant and appropriate requirements. As such, Green Remediation does not mean that a "no action" alternative should be chosen at a site because it will have the lowest impact on the environment, or that Monitored Natural Attenuation should be used as a primary remedy when more

active remedies will address contamination faster. Rather, green remediation strategies should be used to lower the environmental footprint of a site within the context of an overall remedial approach.

As part of its mission to protect human health and the environment, EPA is dedicated to developing and promoting innovative cleanup strategies that restore contaminated sites to productive use, reduce associated costs, and promote environmental stewardship. EPA's regulatory programs and initiatives actively support site remediation and revitalization that result in beneficial reuse such as commercial operations, industrial facilities, housing, green space, and renewable energy development.

Opportunities to increase sustainability exist throughout the investigation, design, construction, operation, and monitoring phases of site remediation regardless of the selected cleanup remedy. As cleanup technologies continue to advance and incentives evolve, green remediation strategies offer significant potential for increasing the net benefit of cleanup, saving project costs, and expanding the universe of long-term property use or reuse options without compromising cleanup goals. EPA Region 2 is supporting this effort by establishing the Region 2 Clean and Green Policy and a Green Remediation Workgroup.

EPA/Koch/KDHE mtg. 5-15-09

* Koch will gather info on wells surrounding prop
concern w/ TWO1A · pumping rates · screen length · depth of well etc. Send that in as soon as possible.
milligrams per liter
1.47 Hex — * wait on ~~speciation data~~ IM@AOC1 until we get speciation data.
increase in Hex

* See 2.F. - handwritten comments
Need wells between Koch property + Bogner property.

* Koch will focus on AOC1 - getting speciation of the chromium

* Locate 2-well clusters within 10 ft of each other.

A,B Everett is Banishing the Sonic Meter in the for O+M purposes
No mixing of pumping wells + non-pumping wells for purposes of mapping
Separate out monitoring from recovery.

* CK to see if we have this.
SAP - 2001
Sept.

Send written resp. to comments w/i 30 days + state that Koch will submit a groundwater characterization ~~60 days~~

* Send ltr - based on mtg. we will w/i x days
Koch submit a groundwater characterization
WP. IMWP optimization will be deferred until groundwater characterization is completed

Focus on AOC1 speciation of soils & groundwater

5/19/09

2 cooling water pumps
redo foundation - 3' x 6' on West side of cooling tower

Speciation of soil & groundwater

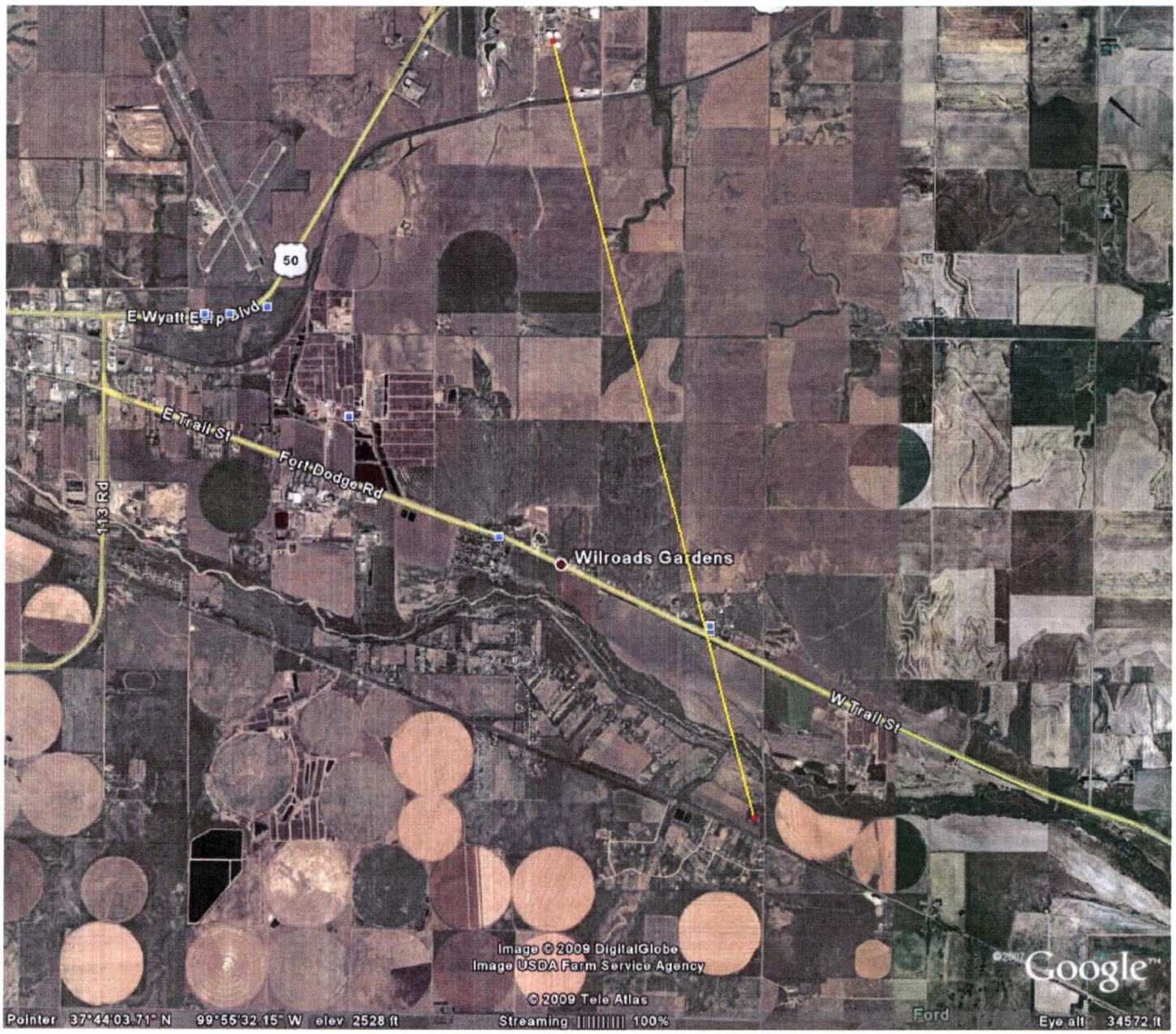
1.5 milligrams per liter (groundwater)
.7 last time

Will go back to 2006 soil locations & will ~~sample~~ ~~the soils~~ speciate the chromium

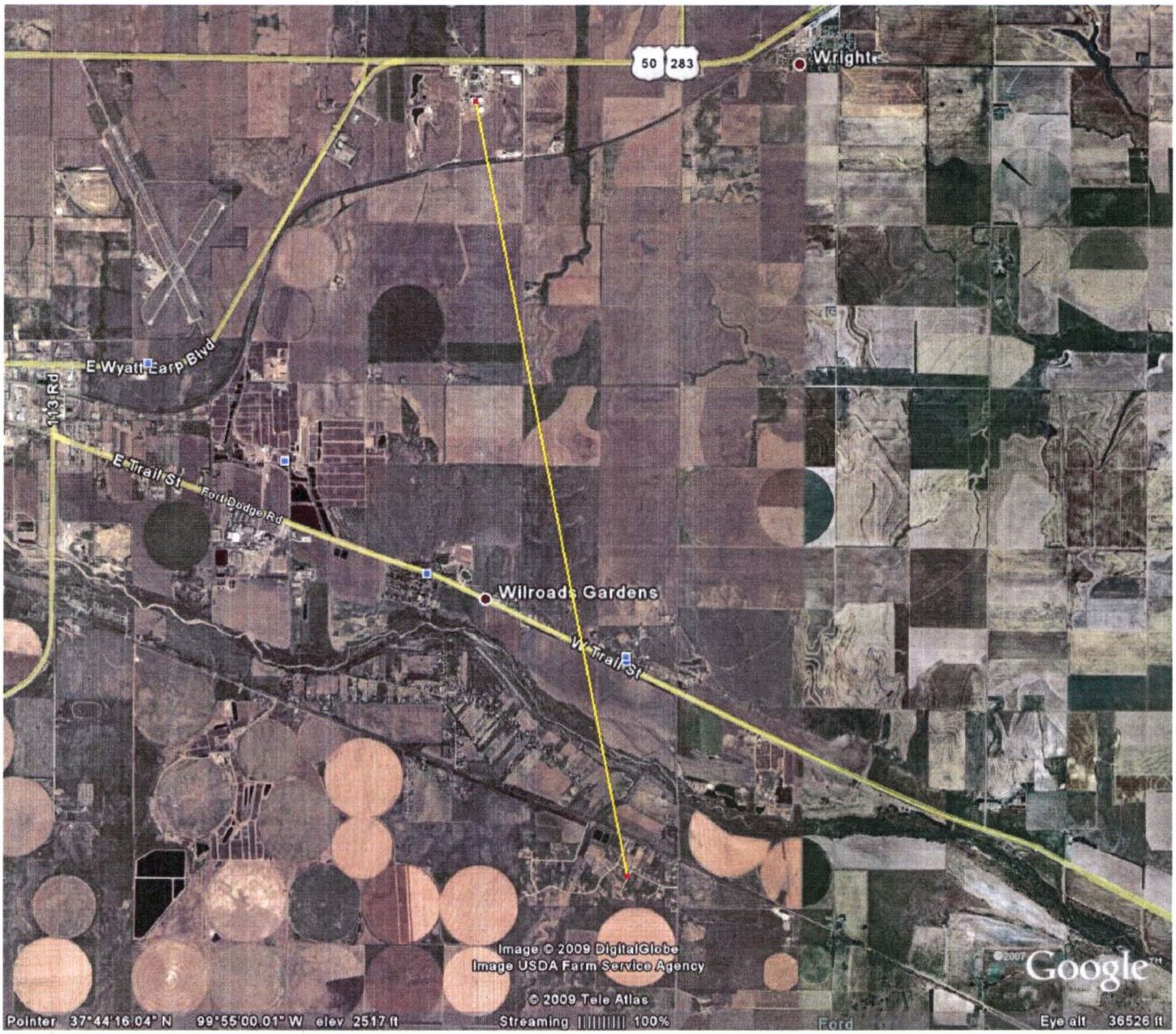
TW01A

006

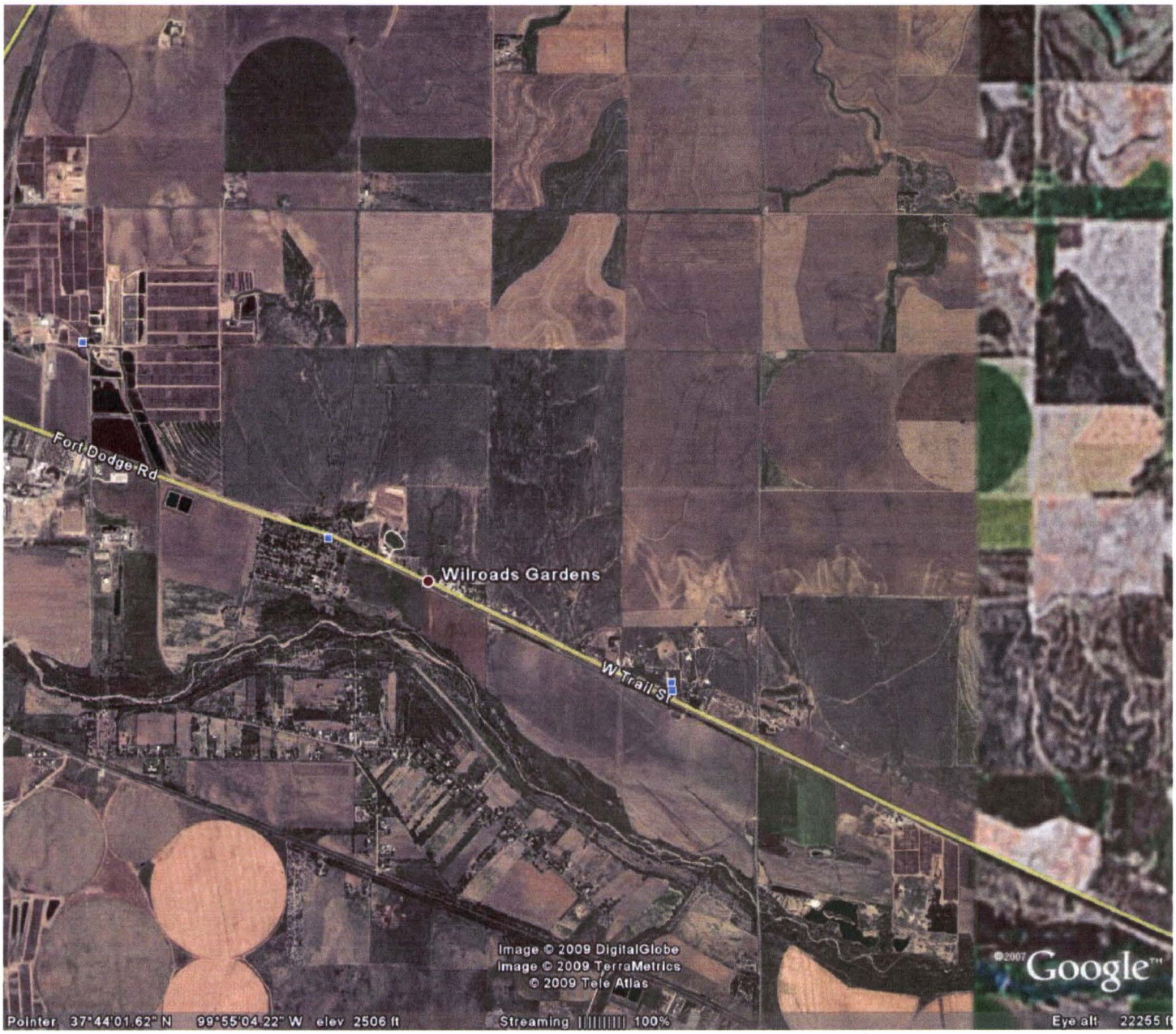
006


50
E Wyatt Earp Blvd
E Trail St
Fort Dodge Rd
113 Rd
Wilroads Gardens
W Trail St
Image © 2009 DigitalGlobe
Image USDA Farm Service Agency
© 2009 Tele Atlas
Google
Pointer 37°44'03.71" N 99°55'32.15" W elev 2528 ft
Streaming 100%
Ford
Eye alt 34572 ft

~4.69 miles

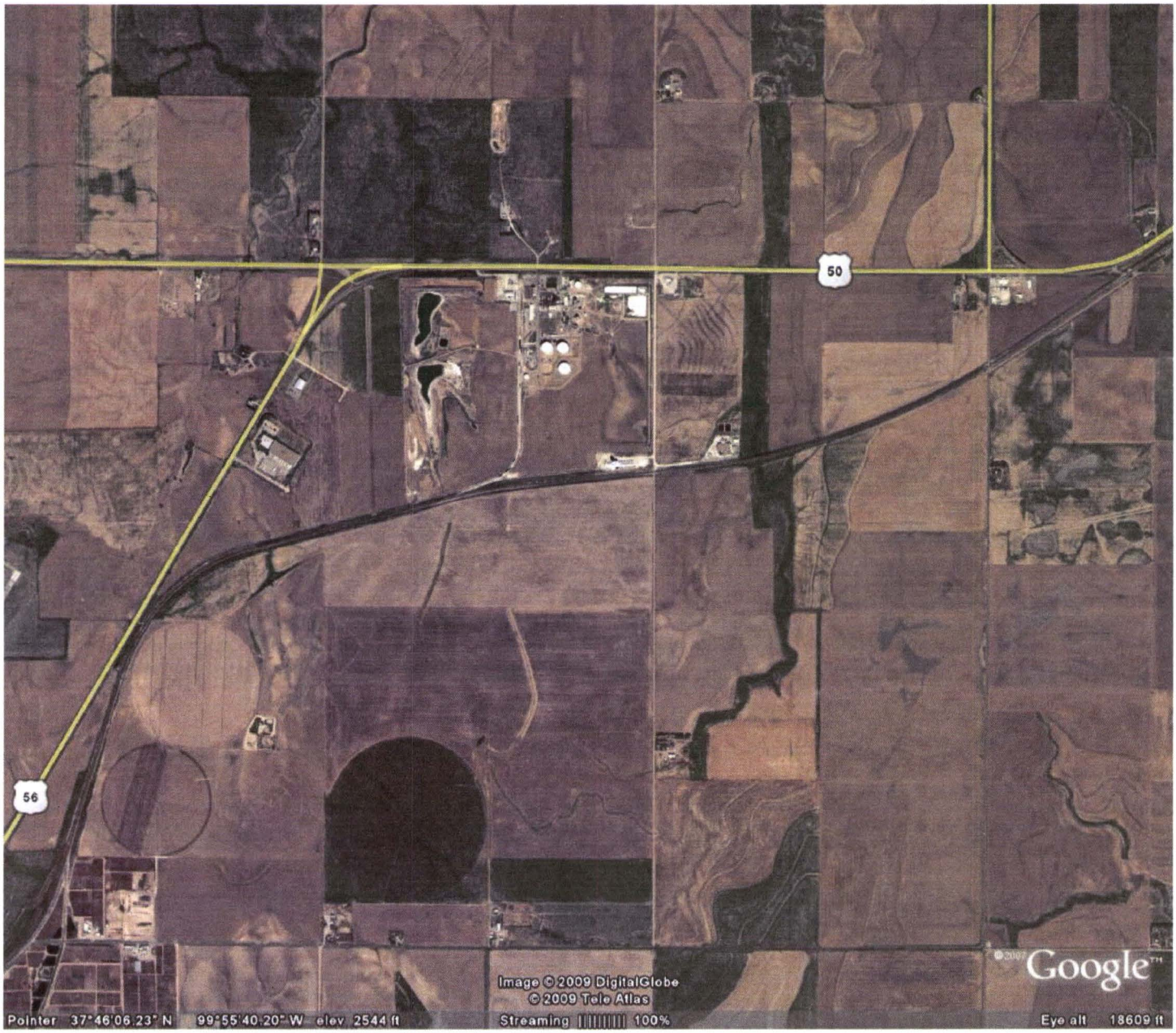

50
283
Wright
E Wyatt Earp Blvd
113 Rd
E Trail St
Fort Dodge Rd
Wilroads Gardens
W Trail St
Image © 2009 DigitalGlobe
Image USDA Farm Service Agency
© 2009 Tele Atlas
Google
Pointer 37°44'16.04" N 99°55'00.01" W elev 2517 ft
Streaming 100%
Eye alt 36526 ft

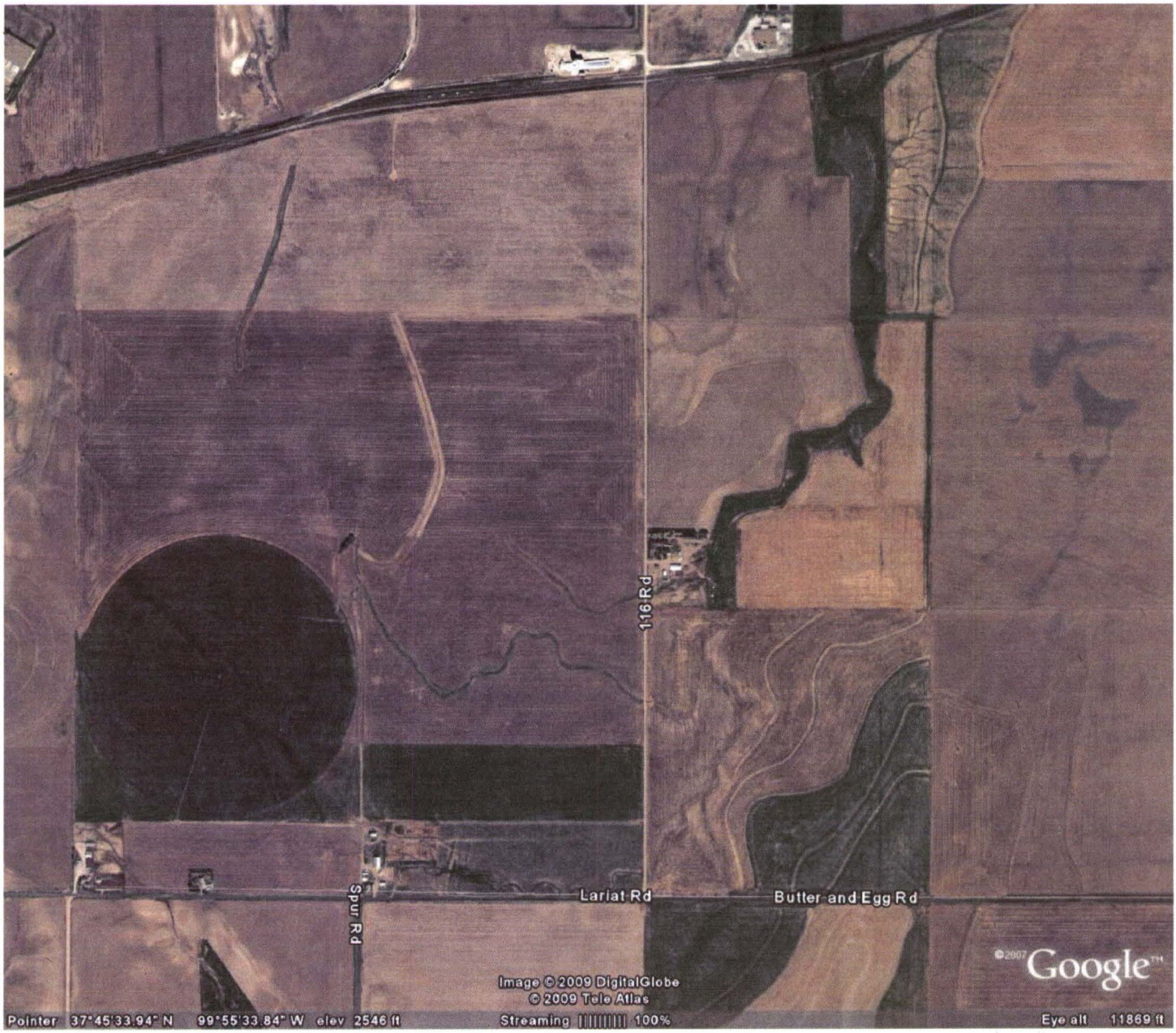
~ 4.91 miles

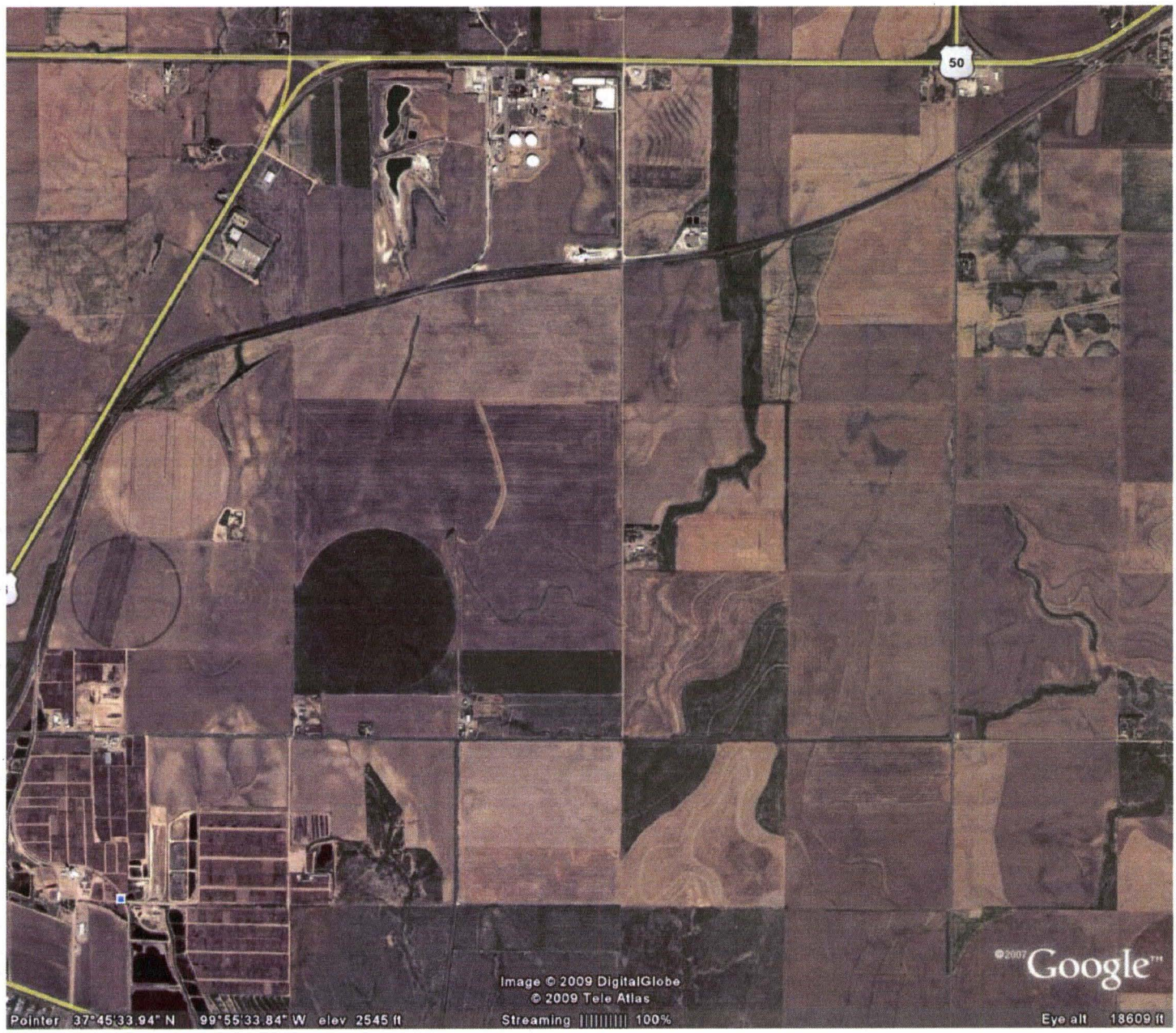

Fort Dodge Rd
Wilroads Gardens
W Trail St
Image © 2009 DigitalGlobe
Image © 2009 TerraMetrics
© 2009 Tele Atlas
©2007 Google™
Pointer 37°44'01.62" N 99°55'04.22" W elev 2506 ft
Streaming 100%
Eye alt 22255 ft

W Trail St
Wilroads Gardens
Image © 2009 DigitalGlobe
Image © 2009 TerraMetrics
© 2009 Tele Atlas
©2007 Google™
Pointer 37°44'53.48" N 99°54'20.89" W elev 2522 ft
Streaming 100%
Eye alt 21592 ft

116 Rd
Lariat Rd
Butter and Egg Rd
Spur Rd
Image © 2009 DigitalGlobe
© 2009 Tele Atlas
©2007 Google™
Pointer 37°45'24.92" N 99°55'11.13" W elev 2533 ft
Streaming 100%
Eye alt 13793 ft


50
56
Image © 2009 DigitalGlobe
© 2009 Tele Atlas
Google
Pointer 37°46'06.23" N 99°55'40.20" W elev 2544 ft
Streaming 100%
Eye alt 18609 ft


116 Rd
Lariat Rd
Butter and Egg Rd
Spur Rd
Image © 2009 DigitalGlobe
© 2009 Tele Atlas
©2007 Google
Pointer 37°45'33.94" N 99°55'33.84" W elev 2546 ft
Streaming 100%
Eye alt 11869 ft


50
Image © 2009 DigitalGlobe
© 2009 Tele Atlas
©2007 Google™
Pointer 37°45'33.94" N 99°55'33.84" W elev 2545 ft
Streaming 100%
Eye alt 18609 ft