

INFRASTRUCTURE COMMITTEE MEETING

Monday, September 25, 2017

6:00 P.M.

HAMPDEN TOWN OFFICE

AGENDA

1. MINUTES
 - a. August 28, 2017 Meeting
2. OLD BUSINESS
 - a. Skehan Center plow bids – report on cost of time DPW spent clearing snow there last winter, and impact of diverted personnel resources on overall DPW winter services
 - b. Recommendations and preliminary pricing for Salt Shed Replacement
 - c. Pine Tree Landfill Post-Closure Monitoring – update, and consultant response to resident questions
3. NEW BUSINESS
 - a. Eagle Scout Service Project Proposal: bocce court and two benches at VFW complex to benefit the Town of Hampden and the Special Olympics of Maine
 - b. Replacement options for John Deere backhoe (now at end of 5 year lease/purchase)
4. STAFF UPDATES
4. PUBLIC COMMENTS
5. COMMITTEE MEMBER COMMENTS
6. ADJOURN

INFRASTRUCTURE COMMITTEE MEETING

Monday, August 28, 2017

MINUTES – DRAFT*Attending:*

*Mayor David Ryder, Chair
Councilor Ivan McPike
Councilor Greg Sirois
Councilor Terry McAvoy
Councilor Mark Cormier*

*Councilor Stephen Wilde
Acting Town Manager Chief Joe Rogers
DPW Director Sean Currier*

Mayor Ryder called the meeting to order at 6 PM.

1. **MINUTES** – June 26, 2017 & July 24, 2017 Minutes were approved as written.
2. **OLD BUSINESS**
 - a. **Notice of sewer CSO master plan grant not awarded from Northern Border Regional Commission** – *DPW Director Sean Currier* explained to the Committee that the Town was not selected for the grant funding we applied for. It was a very competitive year throughout the State with 25 applicants seeking the grant funding. With requests \$7.4M and only \$2.2 M to distribute. It was a highly competitive year. Director Currier also stated that it was a worthwhile exercise nonetheless. Senator King's office contacted the Town Manager and expressed that the Town is on the radar of the Northern Border Regional Commission as being in need of assistance with sewer replacements.
 - b. **Update on August 7th MDOT utility coordination meeting regarding Route 1A reconstruction and Grist Mill Bridge, including potential cost implications for Sewer relocations prior to corridor reconstruction**

DPW Director Sean Currier gave an update on this project and explained that the project has the potential for unplanned expenses that were not stated until recently by the MDOT. He also stated that other communities expressed frustration with this same mandate which was not expressed by MDOT at any time in the planning/budget phase of the project. MDOT stated that Town sewer infrastructure being in conflict with proposed design or any sewer structures in need of elevation adjustment costs were the responsibility of the Town.

c. Review of draft amendments to Cemetery Ordinance (cont'd from July 24, 2017)

DPW Director Currier reviewed the changes to the Cemetery Ordinance with the Committee. The draft ordinance was acceptable with amendments presented in Council packet. The Cemetery Ordinance was referred to Town Council.

3. NEW BUSINESS

a. Update on August 15 MMA Loss Control Visit, recommendations for Salt Shed Replacement, and Transfer Station staffing.

DPW Director Currier summarized the report from Robert (Bob) Thomas, MMA Loss Control on his visit August 15th. There were four (4) items Mr. Thomas was looking for action on by the Town. Town Manager Jennings is taking the lead on responding to Mr. Thomas on the action plan.

4. STAFF UPDATES

a. North County Road culvert replacement – complete

b. Patterson Road culvert replacement – Installation complete; paving pending- Now complete

c. Road striping – Partially complete; to be finished after Patterson Road paving

d. Hopkins Road paving – Complete

e. Update on paving Western Avenue this Fall – DPW Director Sean Currier updated the Committee on the expected time line of a thin coat of pavement to help smooth out some of the rough patches on Western Avenue from Route 202 to 1A to hold the road until a more extensive project in 2020.

f. Correspondence with MDOT re Kennebec Road paving project – The Council expressed no interest in additional Town funds being utilized in conjunction with State funds to fix Kennebec Road condition at this time.

g. Large amounts of sludge and grit/rocks in Mayo Road, Souadabscook and 202 sewer pump stations

h. Chip sealing to happen on August 29th – Chip seal is completed.

i. MS4 Stormwater Annual Report due Sept. 15

j. Update on ordering/financing plow trucks – financing has been approved for the two new plow trucks.

k. Awaiting PUC pricing confirmation for Chickadee Lane LED streetlights

l. Update on mailbox locations on Penobscot Meadow Drive – no solution to the issue at this time. The USPS has refused to move the drop off boxes. Director Currier stated he will look in to trimming brush on the side of the road to make more visible from on-coming traffic.

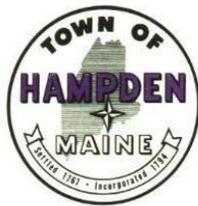
5. PUBLIC AND STAFF COMMENTS

6. COMMITTEE MEMBER COMMENTS

7. ADJOURN

There being no further business, the meeting was adjourned at 6:45p.m.

Respectfully Submitted,
Sean Currier, DPW Director



TOWN OF HAMPDEN
DEPARTMENT OF PUBLIC WORKS

106 WESTERN AVE.
HAMPDEN, ME 04444

TEL 862-3337

FAX 862-3910

September 22, 2017

To: Angus Jennings
From: Sean Currier
Subject: 2017/18 Skehan Complex Plowing – Recommendation of Award

The Public Works department solicited bids for the 2017/18 plowing season for the Skehan Center Complex. Five (5) contractors bid on the requested work with bids for plowing services ranging from \$14,000.00 to \$22,000.00 (base bid "Option A"). Bids for an alternate scope of work ("Option B"), including all of the original scope plus the rear gravel parking lot, ranged from \$16,500 to \$48,962.00.

Wellman Paving Inc., located in Winterport, Maine was the low bid on both items. Wellman provided the Town's 2017 paving contract and were easy to deal with and responded timely to any repairs or rework that was requested. I have also checked with the Winterport Town Manager regarding the quality of work of Wellman for plowing services and he had high regards for their competence.

Funding for this work will come from approved amounts in the FY18 operating budget 20-07-15-25 that was authorized by the Council this past budget season.

Public Works conducted a cost analysis for plowing at the facility for the 2016/2017 season. Personnel, equipment and materials were entered in to the same spreadsheet as the annual plowing cost analysis and a final cost to plow the facility was determined. The cost for Public Works labor and equipment to maintain the facility last winter was \$16,155. The cost of materials was estimated at \$1,966. The total approximate cost to plow the facility in the 2016/2017 season was \$18,121. While this is a savings, we believe that cost alone is not the only factor to consider. Subcontracting this work will allow the Public Works crew to better maintain public infrastructure and plow public roads in a more timely manner.

I would like to recommend awarding the 2017/18 plowing contract for the Skehan Center Complex to Wellman Paving up to the amount of \$16,500.00 with understanding that the currently approved work is for Option A only in the amount of \$14,000.00 until such time as requested by the complex owner to provide services for Option A and B.

Thank you,

Sean Currier

Attachment: 2017 Plowing bid and results

Cc: Shelley Abbott

Town of Hampden
106 Western Avenue
Hampden, Maine 04444



Phone: (207) 862-3337
Fax: (207) 862-5067
email: Publicworks@hampdenmaine.gov

Winter 2017/2018
RFQ Snow Plowing, Salting and Snow Removal Services

Town of Hampden
106 Western Avenue
Hampden, ME 04444
207-862-3034

Dear Vendor:

The Town of Hampden Public Works Department and Recreation Department are requesting written quotes for the provision of Snow Plowing, Salting, and Snow Removal Services for the 2017/2018 winter season. Please return the attached quote form to the Hampden Town Office ATTN: Sean Currier, no later than 2:00 PM, September 11, 2017. Quotes should be submitted by mail or in person to:

Town of Hampden
Attn: Sean Currier
106 Western Avenue
Hampden, Maine 04444

Service Request Address:

Historic Hampden Academy Complex, 1 Main Road North, Hampden, ME 04444
Term of Contract: 2017/2018 Season, October 1, 2017-May 1, 2018

Services Required

All snow and ice removal services will be conducted in a safe manner with care given to the safety of the general public. This includes having all equipment outfitted with proper lighting devices so as to be visible while operating.

Option A:

-Historic Hampden Academy Complex-

Plowing and salting of the facility access roads, driveways, and parking areas by 6 AM and routinely throughout the entirety of the storm. Final cleanup at the conclusion of the storm will include knocking down piles at entrances and exits to minimize visual obstructions to the Maine DOT right of way. This includes a small portion of gravel parking lot (see map Option A). Snow shall not be piled near or against the building. Stacking (stockpiling) snow with a front end loader may be necessary in the main parking area along the fence.

-Skehan Recreation Center-Town of Hampden Leased Area-

Shoveling (or other pre-approved method) and salting of walkways (2 total-see map #1, #2) and Skehan Center emergency exits (6 total-see "0" on attached map).

Option B:

Option B includes all items in Option A, plus plowing and sanding the entire gravel parking (see map Option B) at the rear of the complex. The gravel parking lot is the only area where sand may be used.

This bid shall include removal of snow from the facility by truck, and disposed of off-site, as necessary during the season depending on season snow fall. A typical winter may necessitate snow removal 3-5 times from the complex.

Bidder's Information

- State of Maine Statute provides that no snow shall be plowed across a public right of way.
- All insurance, Worker's Compensation, Comprehensive General Liability, and/or Automobile shall be maintained at the expense of the Contractor during the term of the awarded contract.
- Contractors will be notified in writing of any property damage that occurs as a result of snow and ice management services. Notification will be within 72 hours of Director of Public Works becoming aware of such property damage. Contractor will be solely and wholly financially liable for any damaged property as a result of negligence by the contractor. The contractor shall repair, to the satisfaction of the Public Works Director, and property owner, any damaged property in a timely manner after the terms of the contract. All damages reported to the contractor shall be repaired prior to May 1, 2018
- The Town of Hampden reserves the right to reject any and all quotes received as a result of the RFQ.
- If a quote is accepted, it will be the most advantageous regarding price, quality of service, the contractor's qualifications and capabilities to provide the specified services.
- The Town of Hampden reserves the right to inspect the contractor's work during the term of the contract and request additional plowing / salting services.
- The Town of Hampden Reserves the right to cancel services at any time for failure to perform contracted services as agreed.

BID FORM

2017/2018 Seasonal Service Option A \$ _____

2017/2018 Seasonal Service Option B \$ _____

Submitted by: _____

Company Name: _____

Address: _____

Phone: _____ Fax: _____

E-Mail: _____

Date: _____

Signature: _____

Title: _____

Please provide any references or additional material you feel would help the Town to understand the contractor's capabilities and make a sound decision.



1A

by Camy

#1
#2

Option B

Option A

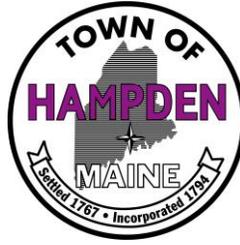
229 ft

© 2016 Google

Google Ea

Imagery Date: 5/11/2015 Lat: 41.7401100 Lon: -69.9201100 elev: 156.8 ft own: slt: 1215

Town of Hampden
106 Western Avenue
Hampden, Maine 04444



Phone: (207) 862-3337
Fax: (207) 862-5067
email: Publicworks@hampdenmaine.gov

Winter 2017/2018
RFQ Snow Plowing, Salting and Snow Removal Services

Town of Hampden
106 Western Avenue
Hampden, ME 04444
207-862-3034

ADDENDUM 1 CLARIFICATION:

Option A:

-Historic Hampden Academy Complex-

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Shoveling (or other pre-approved method) and salting of walkways (2 total-see map #1, #2) and Skehan Center emergency exits (6 total-see "0" on attached map).

Option B:

Option B includes all items in Option A, plus plowing and sanding the entire gravel parking (see map Option B) at the rear of the complex. The gravel parking lot is the only area where sand may be used.

NOTE:

This bid (**for option A and option B**) shall include removal of snow from the facility by truck, and disposed of off-site (**at the Town owned snow dump on Kennebec Road, 1.9 miles from Skehan Center**), only as necessary determined by the Hampden Public Works Director, during the season depending on season snow fall. A typical winter may necessitate snow removal 3-5 times from the complex.

TOWN OF HAMPDEN

**SNOW PLOWING, SALTING & REMOVAL SERVICES
SKEHAN CENTER
BID SHEET**

**September 11, 2017
2:00 PM**

BIDDER	OPTION A	OPTION B
Austin, Roger DBA Austin's Lawncare & Snowplowing	Did not bid	\$48,962
Wellman Paving, Inc.	\$14,000	\$16,500
Eastwood Contractors, Inc.	\$18,800	\$ 2,500
Matt's Property Maintenance & Construction, LLC	\$ 20,000	\$24,500
Harriman & Sons	\$22,000	\$ 5,400

Hampden									
Approved FY18 Budget									
Expense									
	2016 Budget	2016 Actual	2017 Budget	2017 YTD	2017 YTD % 6/1	FY18 Town Council	Change FY17 to FY18	Notes	
Dept/Div: 20-07 RECREATION/CULTURE / SKEHAN CENTER					91.8%	June 19, 2017			
COMPENSATION									
01-05 WAGES	0.00	23,403.13	37,666.00	22,144.53	58.8%	\$ 34,640	(\$3,026)	Programmer; 1 bldg supervisor; 5 seasonal basketball staff.	
INSURANCE									
05-01 FICA/MEDI	0.00	1,811.41	2,881.00	1,697.91	58.9%	\$ 2,650	(\$231)	Min wage increase	
05-10 WORKERS COMP			0.00			\$ -	\$0	Included in 20-01 line item	
SUPPLIES									
10-20 SUPPLIES/MATERIALS	0.00	8,399.26	8,700.00	6,891.95	79.2%	\$ 9,500	\$800	Increased scrubber maint. costs; replace lobby runners	
UTILITIES									
15-05 ELECTRICITY	0.00	10,368.85	18,200.00	9,642.04	53.0%	\$ 11,500	(\$6,700)		
15-10 FUEL	0.00	10,700.56	12,943.00	11,108.04	85.8%	\$ 11,950	(\$993)	Based on contract price and estimated reduced usage.	
15-15 WATER	0.00	2,482.47	5,700.00	4,091.87	71.8%	\$ 3,000	(\$2,700)		
15-20 SEWER	0.00	954.38	1,432.00	3,315.50	231.5%	\$ 1,700	\$268	Updated 6/1/17. YTD includes some non-sewer expenses.	
15-25 LEASE RELATED EXPENSES			0.00			\$ 19,501	\$19,501	Taxes (\$2400), insurance (\$1100), lease (\$1), snow removal (\$14,000), misc (paving patch work, etc) (\$2000).	
MAINTENANCE/REPAIRS									
20-35 BUILDING MAINTENANCE	0.00	10,471.54	14,480.00	12,784.29	88.3%	\$ 14,700	\$220	Floor maintenance, gym recoat, boiler/vent work, seasonal rug service, extinguisher recharge, mens locker room water fountain replacement, misc. repairs.	
SPECIAL PROGRAMS									
		<u>Rev. Acct.</u>							
40-10 ART LESSONS	R 20-41, R 20-43, R 20-44	0.00	592.00	2,160.00	2,918.00	135.1%	\$ 1,440	(\$720)	
40-15 CONCESSIONS	R 20-35	0.00	-2,231.53	1,700.00	1,331.37	78.3%	\$ 2,100	\$400	
40-17 BASEBALL CLINIC	R 20-43, R 20-44	0.00	-367.00	374.00	765.00	204.5%	\$ 648	\$274	
40-21 DROP IN PROGRAM	R 20-36	0.00	-7,062.31	2,415.00	3,398.93	140.7%	\$ 2,475	\$60	
40-24 INDOOR FIELD HOCKEY	R 20-43			0.00		\$ 50	\$50		
40-25 ADS, DONATIONS, SPC	R 20-37	0.00	-1,909.86	180.00	65.00	36.1%	\$ 180	\$0	
40-27 GATE/ADMISSION CO:	R 20-38	0.00	-5,459.85	25.00	0.00	0.0%	\$ -	(\$25)	Fall basketball league moved to rental client



Angus Jennings <townmanager@hampdenmaine.gov>

Environmental Trust Committee Meeting

1 message

Bill Lippincott <wj13@tds.net>

Mon, Sep 11, 2017 at 12:58 PM

To: Angus Jennings <townmanager@hampdenmaine.gov>

Cc: Norm Thurlow <nthurlow@tds.net>

Hi Angus,

I'm unable to come to the Environmental Trust Committee Meeting tomorrow, but wanted to share a few comments and ask a few questions.

A. In response to my email of 8/14/17, Matt notes that arsenic concentrations in monitoring wells MW-916 [MW-196 in his email; I think he is referring to MW-916] and MW-917 have generally decreased in comparison to concentrations measured in 2014 and 2015. That's good.

Even so, in his latest report, p. 5 "off-site monitoring well MW-917 groundwater exceeded the arsenic MCL/MEG during the 2016 and April 2017 sampling events" and "off-site monitoring well MW- 916 the MCL and MEG for arsenic was equaled in April 2017."

As residential wells DW103 and DW04-109 are in the proximity of these two monitoring wells in this sector affected by the landfill's impact, (see map) and also on p. 5 "off-site residential well DW-103, groundwater equals the MCL and/or MEG for arsenic and exceeds these criteria for sodium"

1. Does groundwater contamination in this area of the landfill threaten water quality in residential wells in the same area?
2. Are the steps that Casella is currently taking sufficient to prevent further arsenic contamination, and other contamination from the landfill of these residential wells?

B. Matt wrote that he and Steve plan to contact Casella to review incidents of liner failures identified in 2016 and assess their response.

3. What has been Casella's response and what actions are they planning on taking to address the liner failures?

I would be most interested to hear from our consultants on those three questions.

I would also be interested to learn about the conclusions of the cause/origin of the fire at the landfill on August , 2017 - just emailed Lt Pugsley about the same.

Thanks for continuing to update me on material and issues related to the landfill.

Bill



Memorandum

Date: 9-22-17

To: Angus Jennings, Town of Hampden

From: Matt Reynolds

Subject: E-mail of 9-11-17 Regarding Questions from Bill Lippincott

On September 11 you forwarded several questions that Bill Lippincott had asked regarding data from the Pine Tree Landfill site. Responses to these questions are provided below in italic print.

A. In response to my email of 8/14/17, Matt notes that arsenic concentrations in monitoring wells MW-916 [MW-196 in his email; I think he is referring to MW-916] and MW-917 have generally decreased in comparison to concentrations measured in 2014 and 2015. That's good.

Even so, in his latest report, p. 5 "off-site monitoring well MW-917 groundwater exceeded the arsenic MCL/MEG during the 2016 and April 2017 sampling events" and "off-site monitoring well MW- 916 the MCL and MEG for arsenic was equaled in April 2017."

As residential wells DW103 and DW04-109 are in the proximity of these two monitoring wells in this sector affected by the landfill's impact, (see map) and also on p. 5 "off-site residential well DW-103, groundwater equals the MCL and/or MEG for arsenic and exceeds these criteria for sodium"

1. Does groundwater contamination in this area of the landfill threaten water quality in residential wells in the same area?

The area to the east of the landfill monitored by monitoring wells 916 and 917 has historically been impacted by the landfill. Residential well DW-103 and surrogate well DW-04-109 further to the east have also shown historical evidence of impact from the landfill, particularly from methane.

Recent data from the monitoring wells 916 and 917, and from DW-103 and DW04-109, generally show improvement. However, only DW04-109 currently meets the corrective action criteria.

2. Are the steps that Casella is currently taking sufficient to prevent further arsenic contamination, and other contamination from the landfill of these residential wells?

The corrective actions that are currently being conducted by Casella have resulted in significant reduction of methane in all wells to the east of the landfill. There has also been a general trend of decreasing arsenic concentrations, however arsenic remains at or above the drinking water standard in wells 916, 917 and DW-103. Additional time is required to assess the adequacy of corrective actions to reduce arsenic concentrations below the drinking water standards, but the recent trend is positive.

B. Matt wrote that he and Steve plan to contact Casella to review incidents of liner failures identified in 2016 and assess their response.

3. What has been Casella's response and what actions are they planning on taking to address the liner failures?

After identifying leachate seeps in several areas of the landfill in 2016, Casella investigated the source and concluded that it was a result of leachate addition to 2 of the recirculation trenches (LRT-1 and LRT-4.) Rather than investigate the specific conditions in these trenches that lead to the seepage, which would have required breaching the cover system, excavating the trenches, then repairing the cover system, Casella has stopped using these trenches for leachate circulation and has repaired the cover in the 3 seep locations. This response is adequate to prevent future impact from these trenches. However, there is a potential for similar conditions to occur in the two remaining trenches (LRT-2 and LRT-3), which are being used for leachate recirculation.

According to the findings of Casella and the Maine DEP, the 2016 seepage events occurred within the cover system drainage layer and there was no evidence that leachate had been released to the environment except in the three relatively small seep areas. Impacted soil from in these areas was collected for disposal and is likely to have had a minimal impact on water quality.

HAMPDEN ENVIRONMENTAL TRUST

PINE TREE LANDFILL

SEPTEMBER 12, 2017

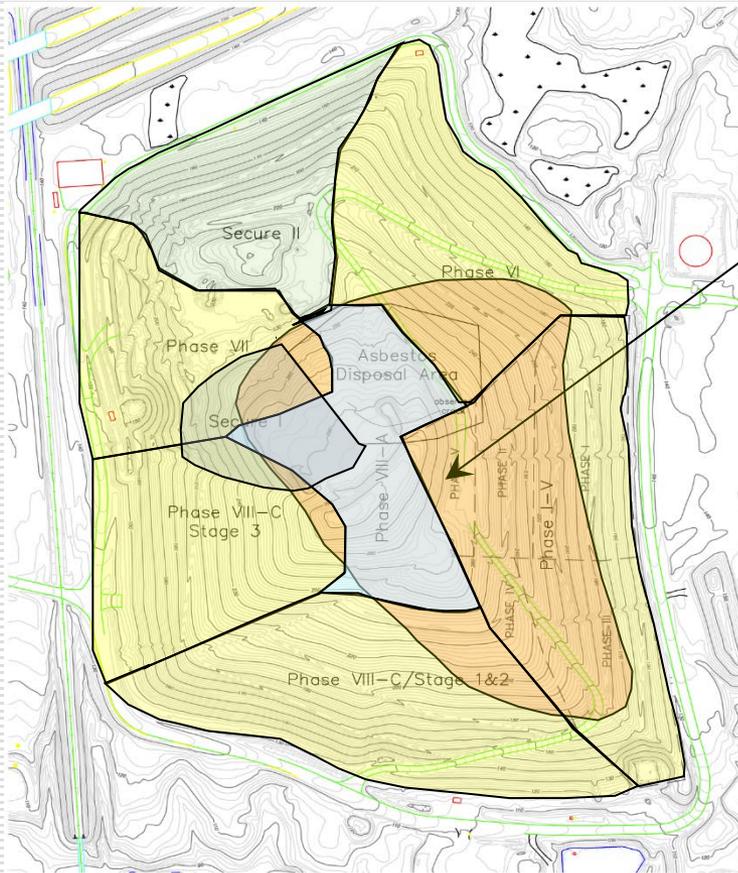
OVERVIEW OF PRESENTATION:

- Review of Landfill Construction and Closure Status
 - Review of Construction History
 - Leachate Recirculation
 - Geotechnical Monitoring – Slopes and Settlement
 - Corrective Actions
 - Pathways of Migration from Landfill
 - Corrective Actions
 - Water Quality Assessment
 - Sources of Impact to Groundwater
 - Resulting Effects on Water Quality
 - Trends in Water Quality
-

Landfill Development History

- Waste Disposal began in the early 1970's (site formerly know as the Sawyer Environmental Recovery Facility)
 - The Original **CONVENTIONAL** Landfill was unlined
 - Later increased to include:
 - An Asbestos Disposal area
 - Secure I and Secure II Landfills.
 - 1992: Expanded to include Phases I through V of the Secure III Landfill, and later Phases VI through VIII.
-

Landfill Development History



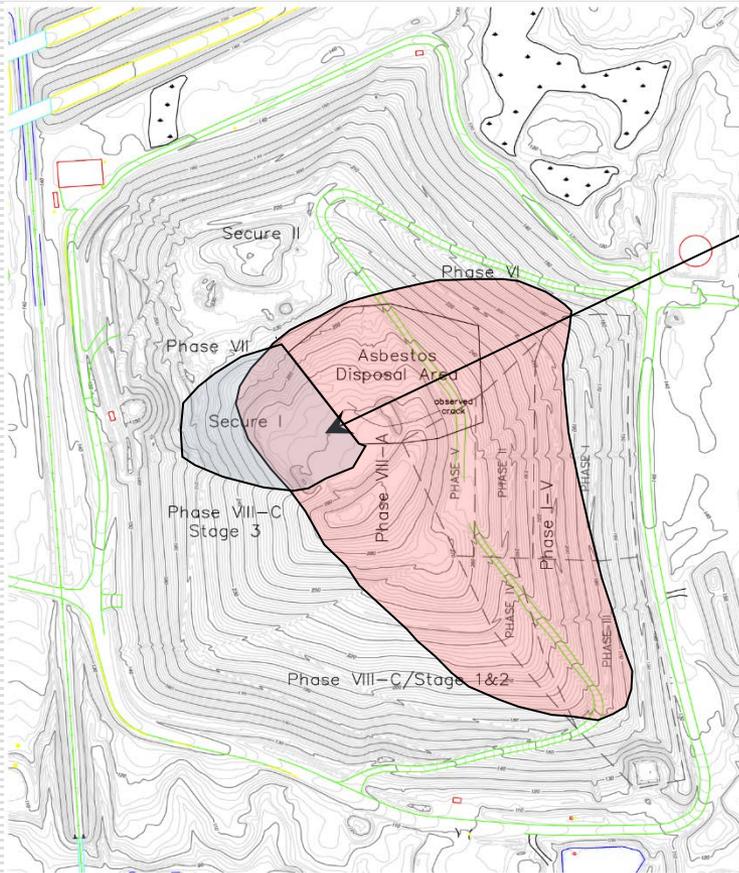
Conventional Landfill

Landfill Development History



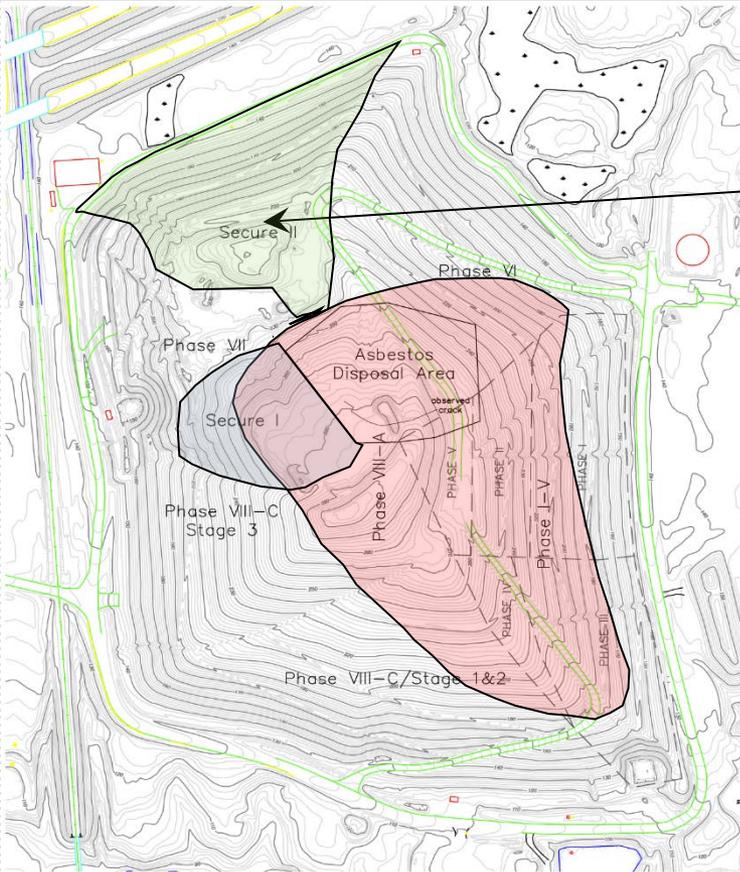
Conventional Landfill

Landfill Development History



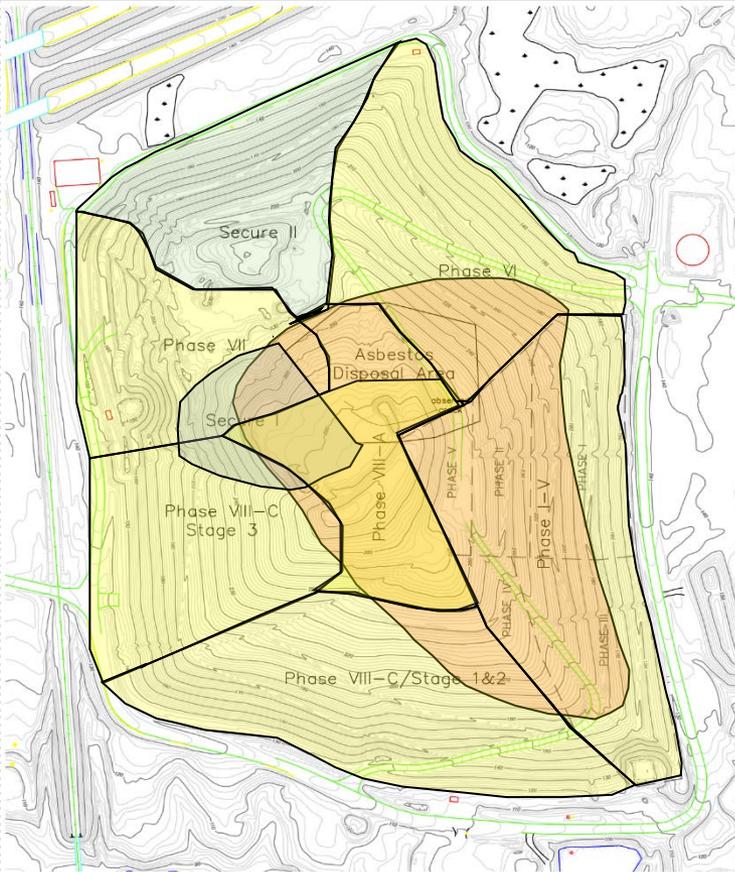
Secure I added

Landfill Development History



Secure II Added (lined facility)

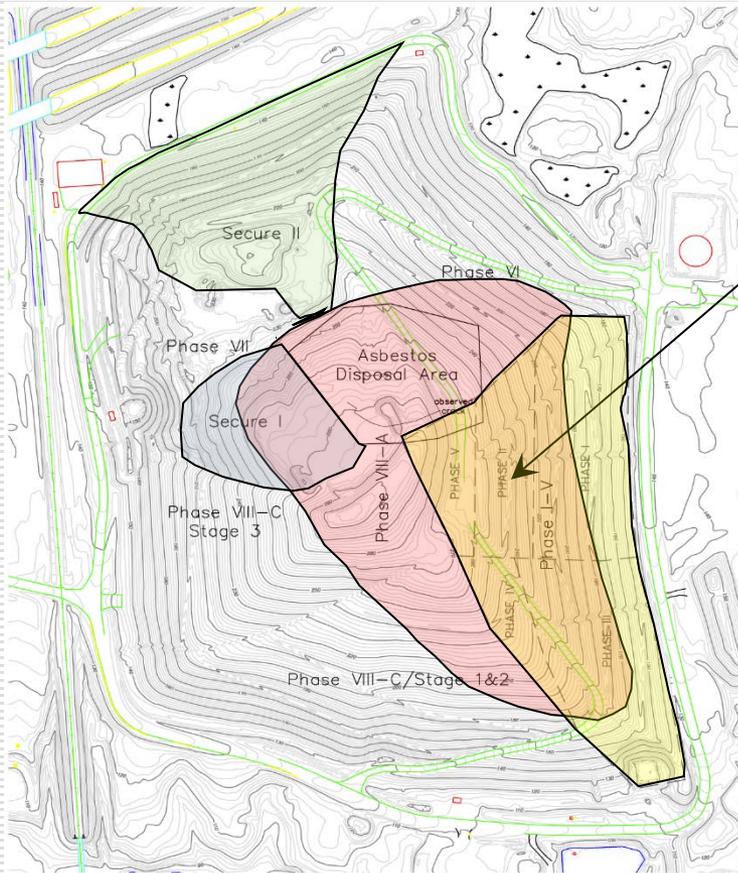
Landfill Development History



Secure III permitted in 1992

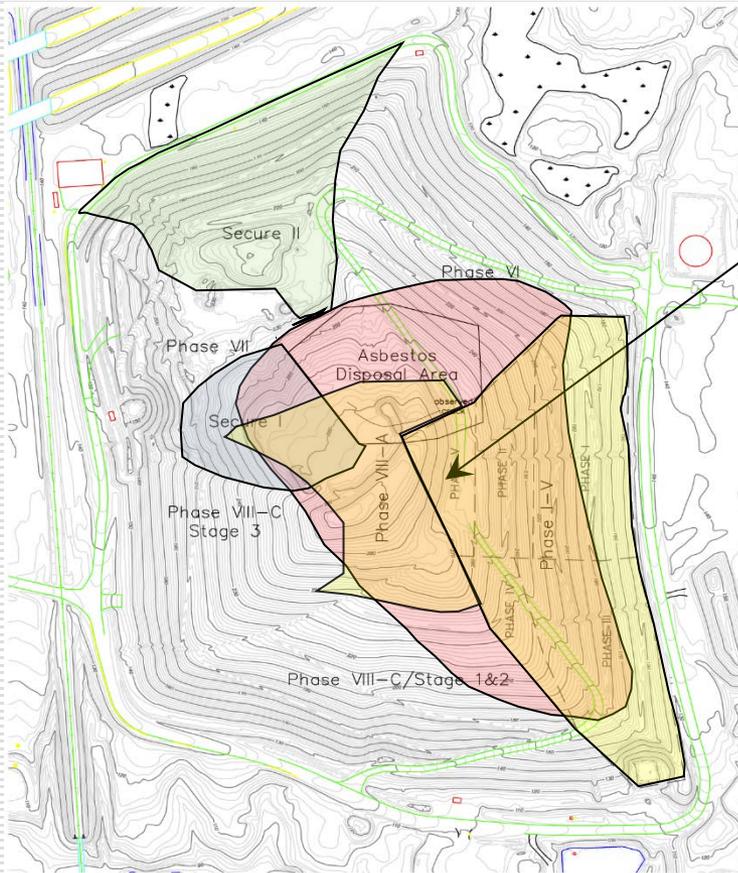
- Included a series of lined landfill cells constructed around the perimeter of the conventional landfill.
- The cells were constructed up and over (piggybacked on) the Conventional Landfill, and included leachate collection systems.

Landfill Development History



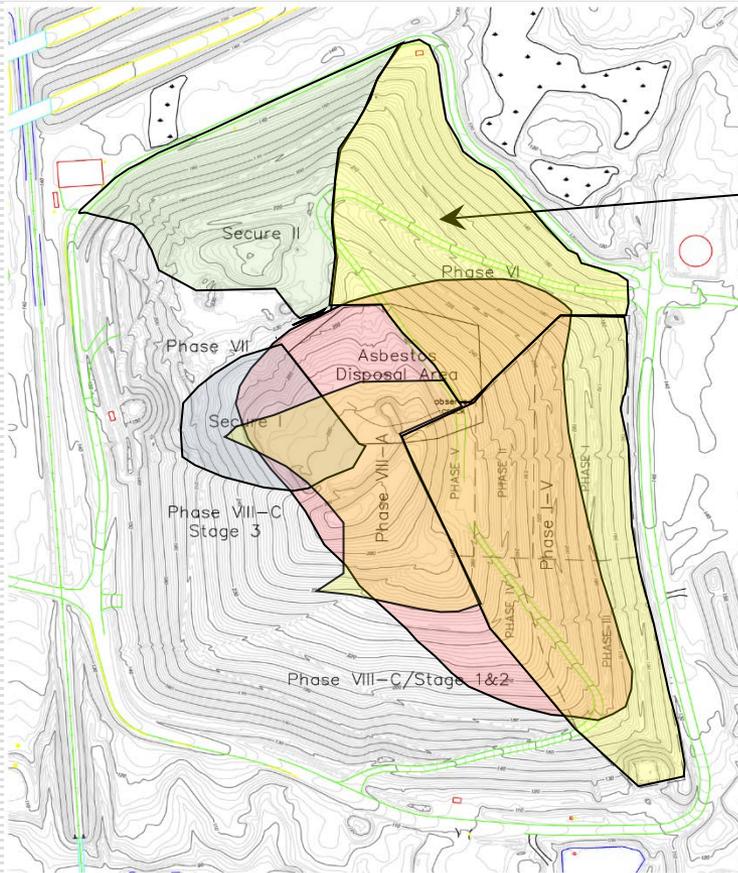
Phases I-V

Landfill Development History



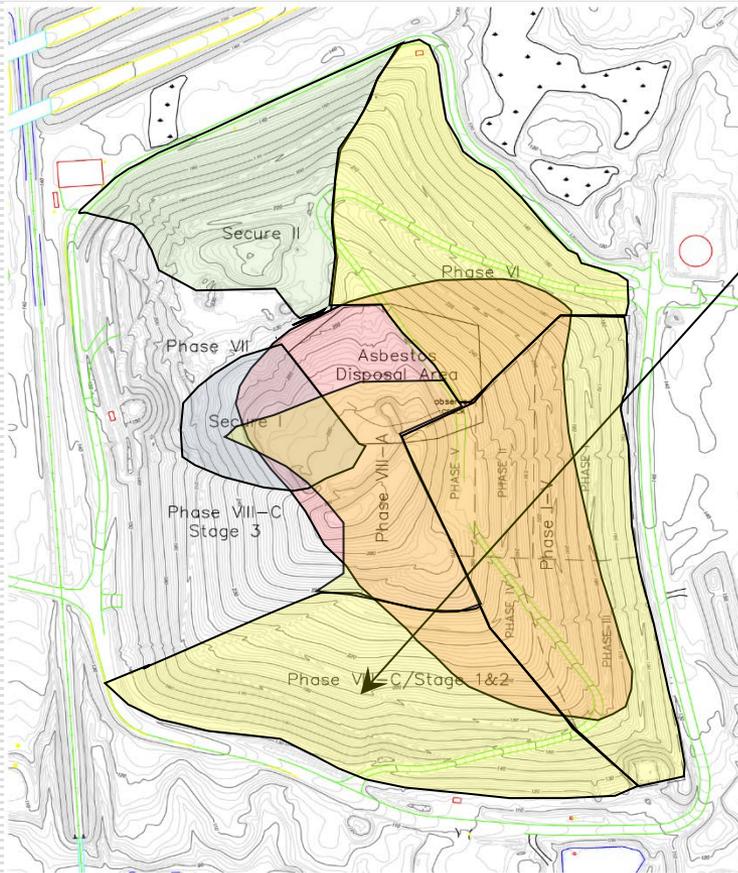
Phase VIII-A

Landfill Development History



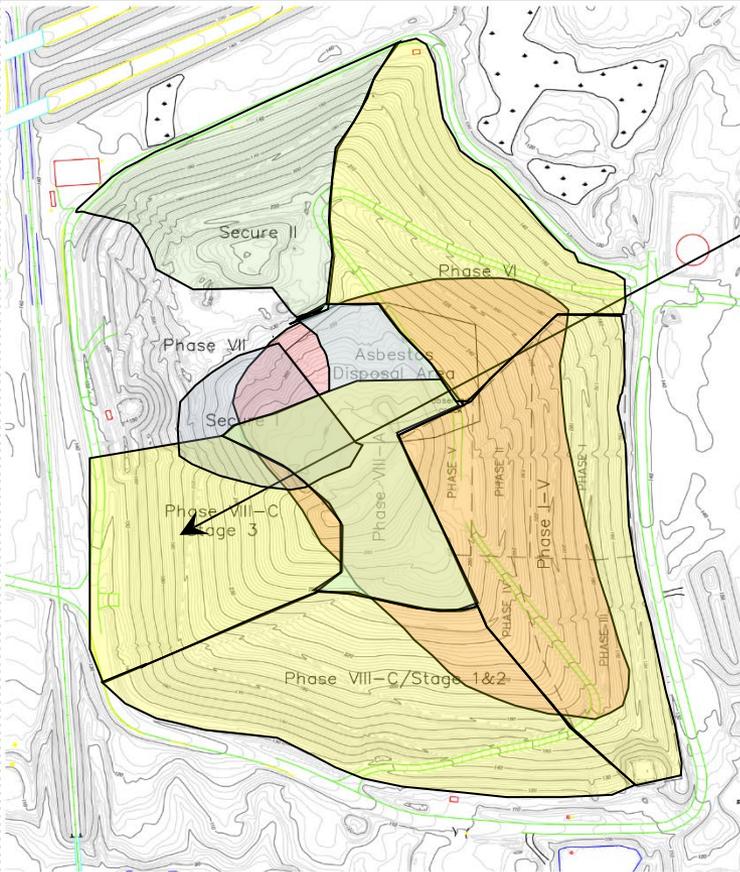
Phase VI

Landfill Development History



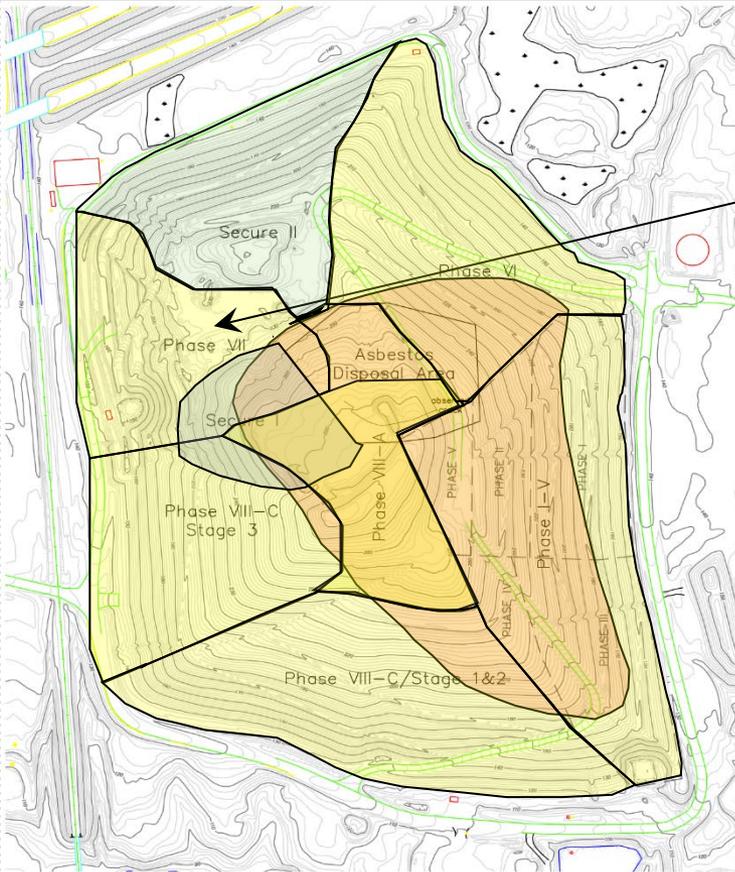
Phase VIII-C Stages 1 & 2

Landfill Development History



Phase VIII-C – Stage 3

Landfill Development History



Stage VII

Secure 3 completed in 2006.

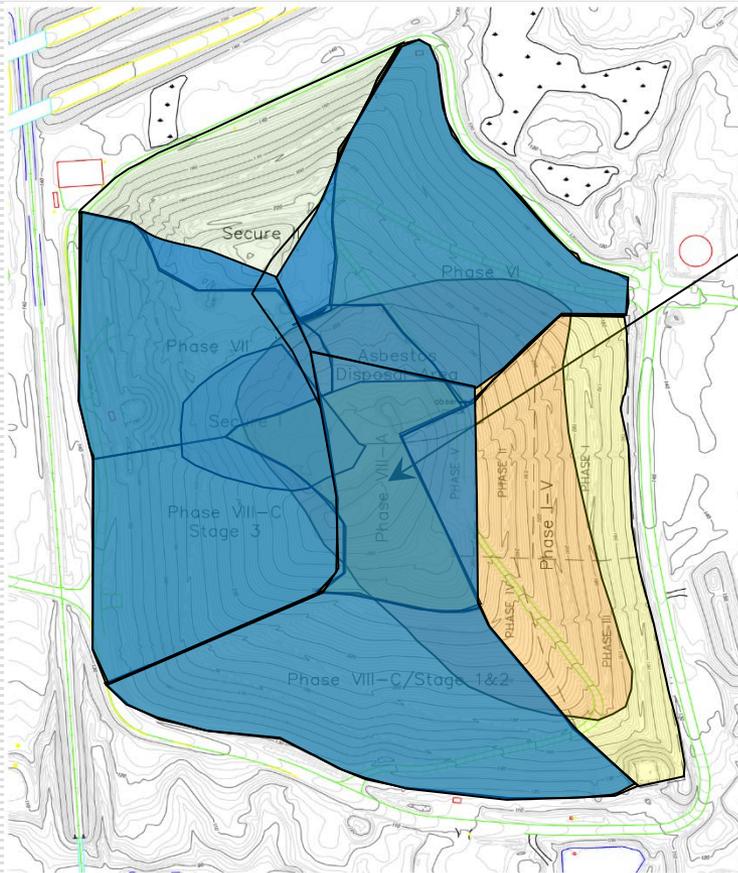
Corrective Actions



Corrective Actions:

- Gas extraction wells through the waste
- Gas extraction outside Landfill to reduce off-site migration of methane
- Enhanced Leachate collection systems around the perimeter.

Landfill Closure Agreement in 2006 – Completed in 2010



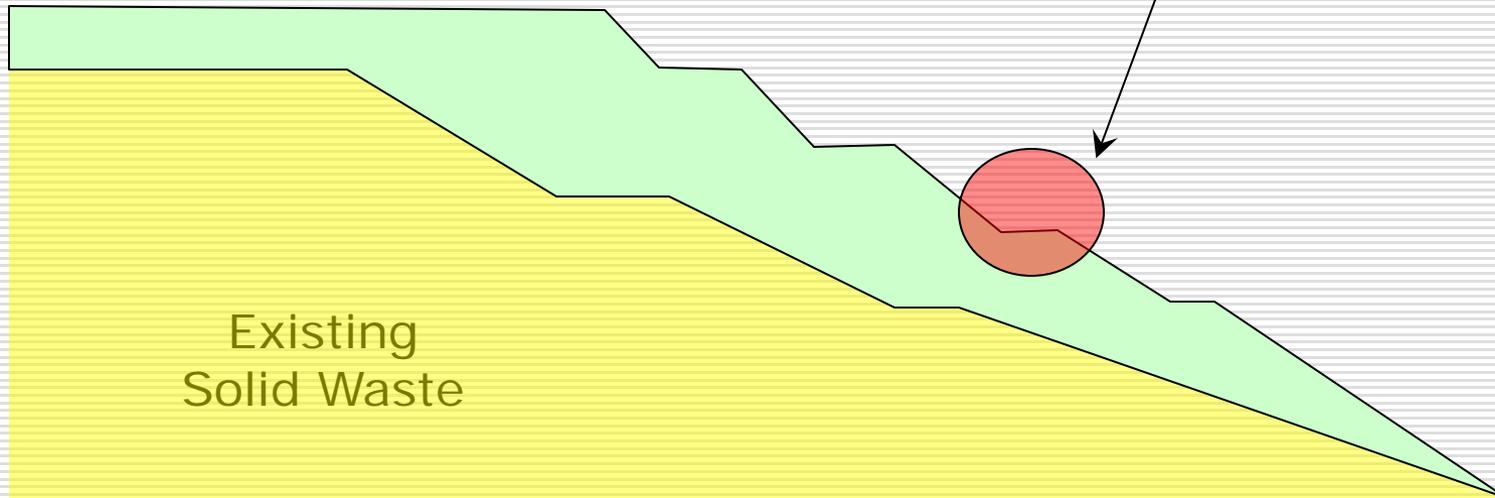
Closed in three Phases
from 2008 through 2010
Top Elevation 320 feet)

Closure = Final Grading
and Cover Construction

(Secure II and Secure I-V
closed already)

Closure Design

Closure design included increasing the design slopes to 2.5H:1V and increasing the overall height to elevation 320 feet.

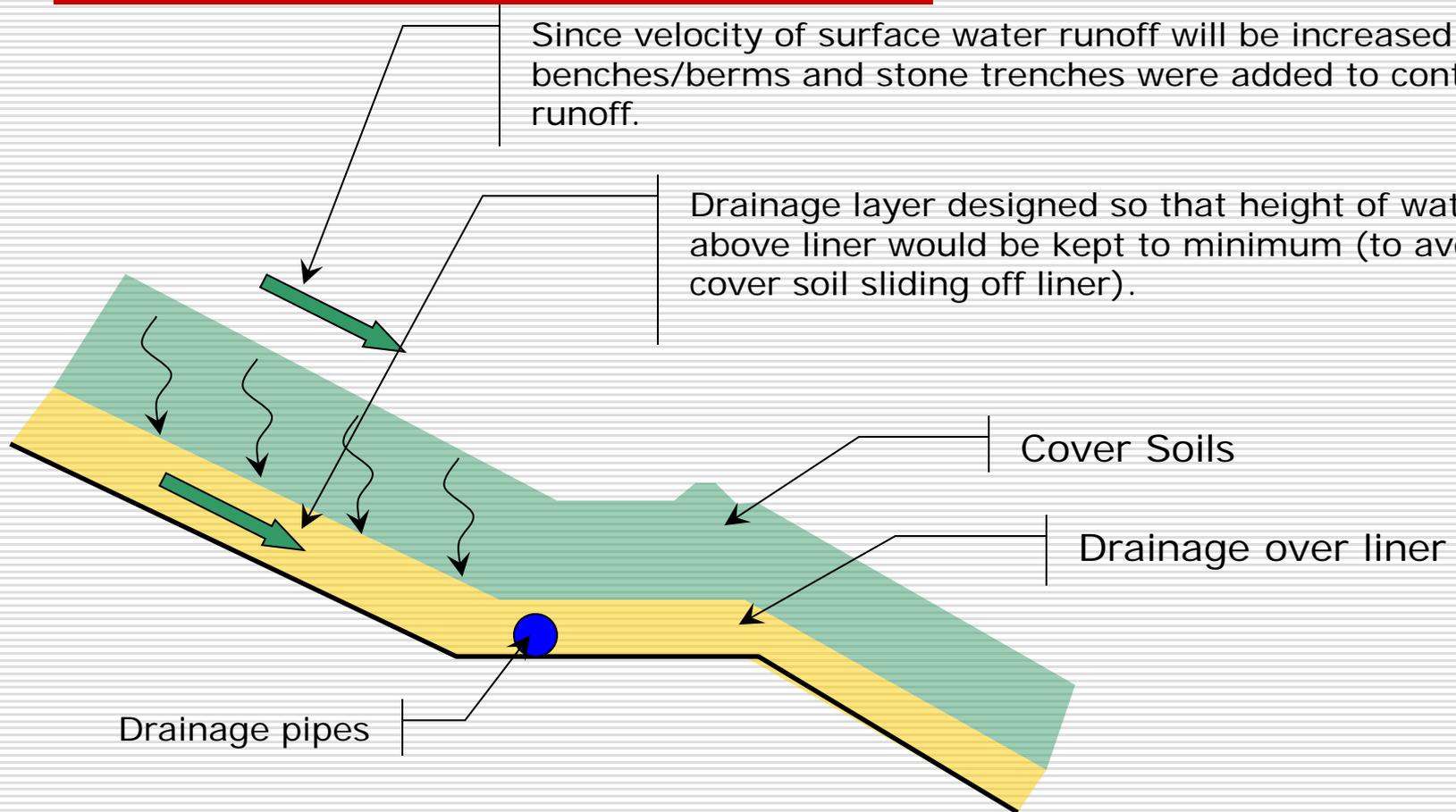


Existing
Solid Waste

Closure Design

Since velocity of surface water runoff will be increased, benches/berms and stone trenches were added to control runoff.

Drainage layer designed so that height of water above liner would be kept to minimum (to avoid cover soil sliding off liner).





Leachate Recirculation

- Leachate recirculation was proposed as a means to increase gas production for the Gas to Energy Facility & accelerate settlement & stabilization of landfill
 - Pilot study conducted in 2009 to study the effects of adding moisture to waste. Appeared to increase gas production
 - Leachate collection was approved in 2011. System includes 4 recharge trenches (LRT) on top of the landfill.
 - Some gas extraction wells are also pumped with leachate.
 - 2016 Leachate Recirculation Volume = 2,616,000 gallons.
 - Total remaining capacity of the waste mass is ~ 12,570,000 gallons of the initially approved 36,000,000 gallons in the area of influence of the trenches and wells
-



Leachate Recirculation

In 2016 PTL Discovered Leachate Seeps –
Linked to LRT 1 & 4.
Stopped Using LRT 1 & 4

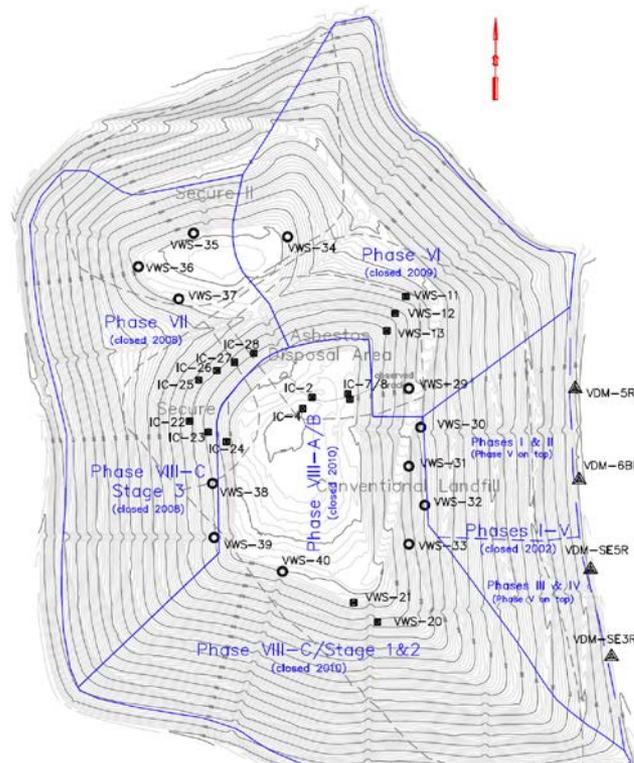


Figure 4-1 2016 Leachate Recirculation Pumping Structure Locations

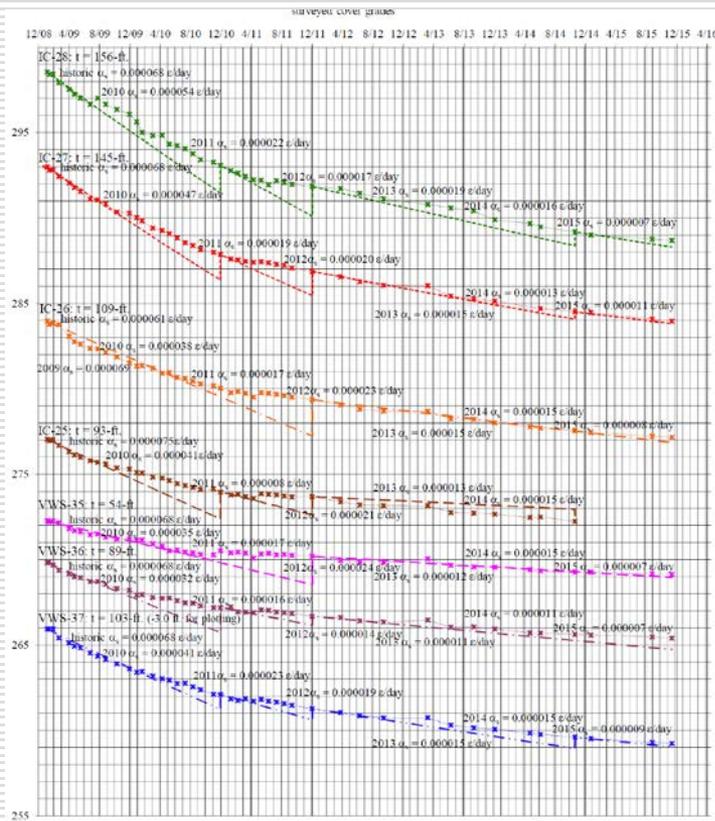


Post Closure Settlement and Stability Monitoring

The primary purposes of the geotechnical monitoring are to assess if the internal waste mass and foundation soils are stable, and to assess if the cover system is performing as-designed



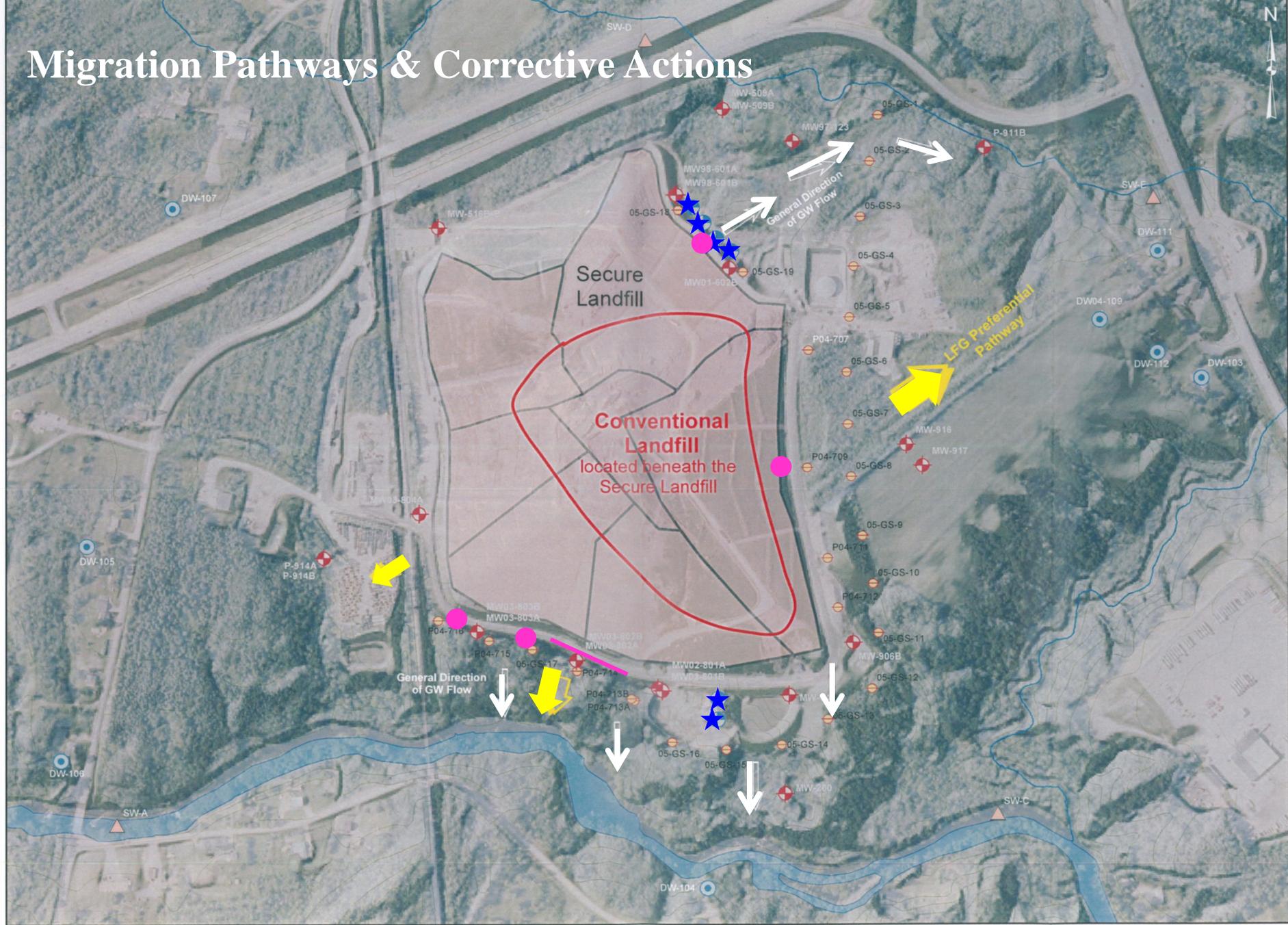
Settlement Monitoring



Monitoring Indicates That Landfill is Performing As Designed

- The horizontal deformation plots:
No trends indicative of large scale movements detrimental to the cover system integrity.
- The vertical displacement plots:
Settlement is diminishing with time.
- The current rate of strain extrapolated over the 30-year closure period:
Within the allowable strain for the liner.
- Topographic surveying:
No unusual features

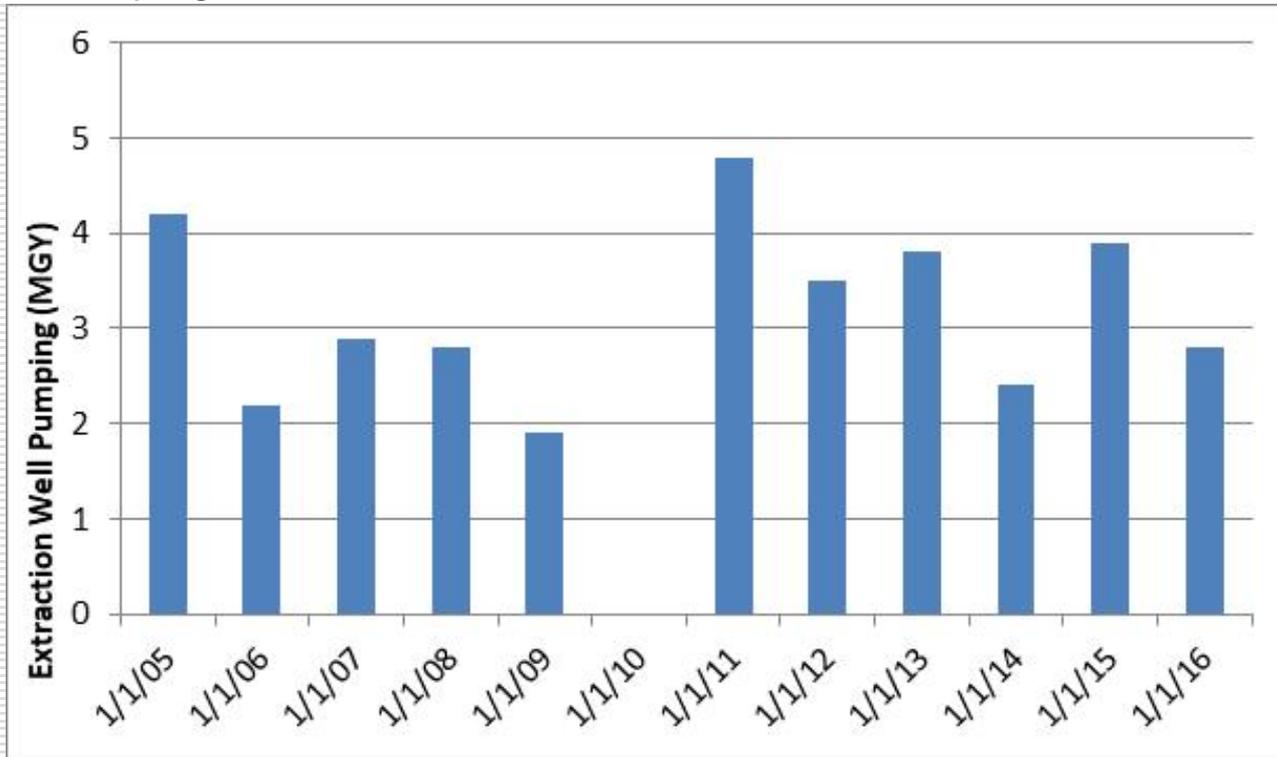
Migration Pathways & Corrective Actions



Corrective Actions

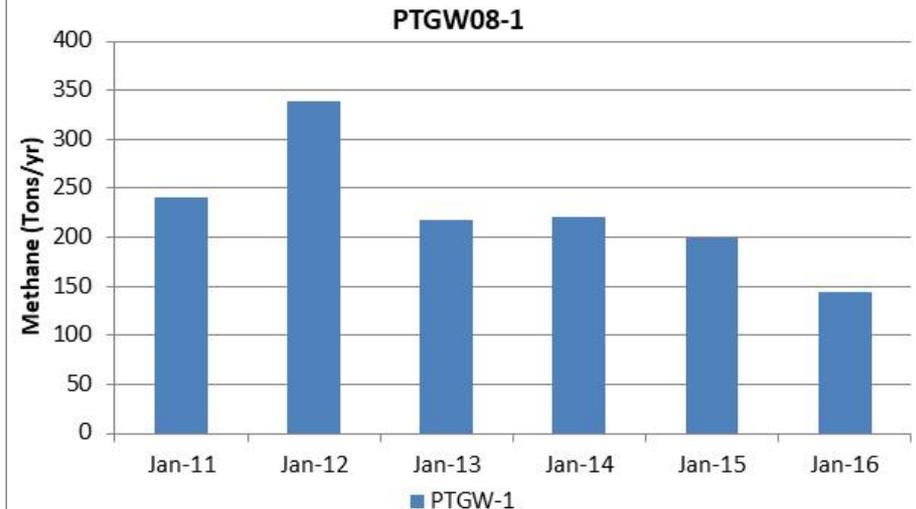
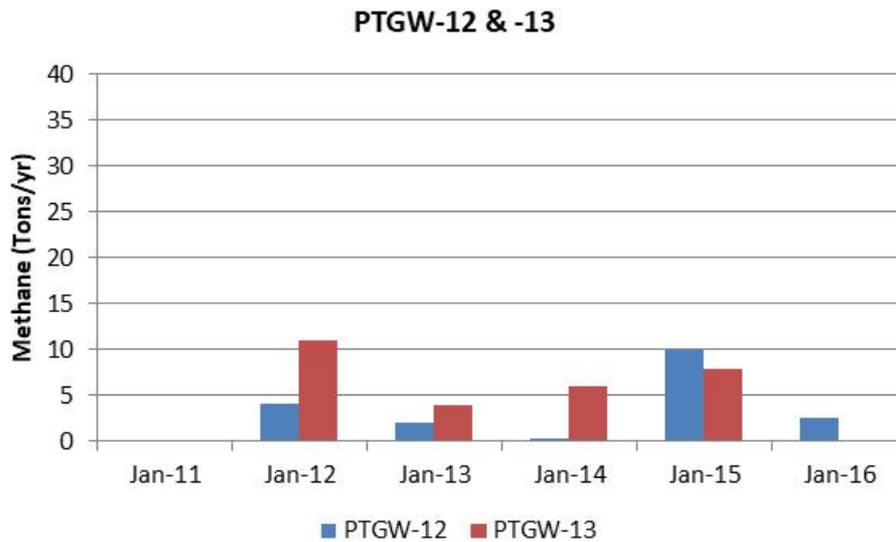
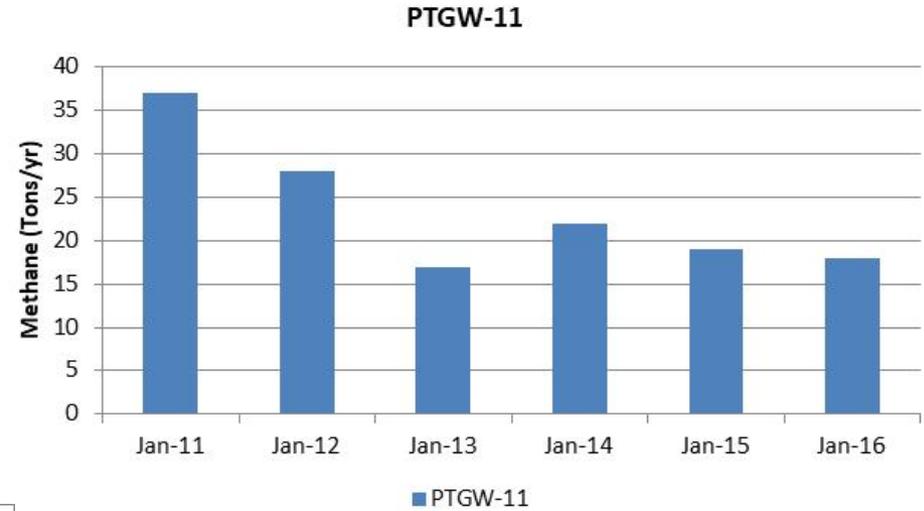
CORRECTION ACTIONS – Groundwater Extraction

- Pumping From Extraction Wells – 2005 to 2016



Corrective Actions

GAS EXTRACTION



Water Quality Corrective Action Criteria

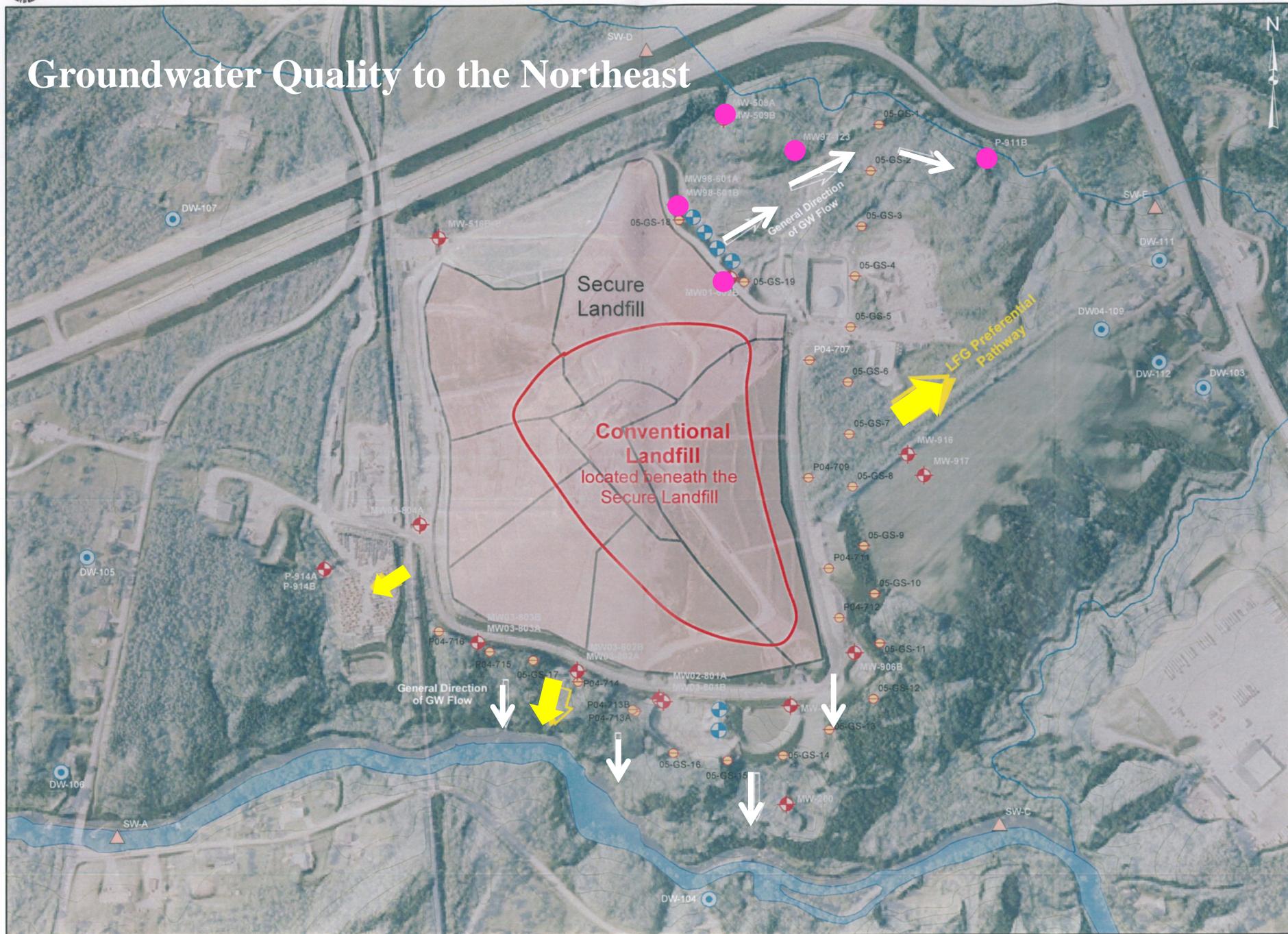
Post-Closure Water Quality Criteria for “**Successful Corrective Action**”

- Groundwater On-Site:
 - Specific Conductance < 500 umhos/cm

 - Groundwater Off of PTL Property:
 - Groundwater Meets MCL & MEG Values
 - Specific Conductance < 400 umhos/cm
 - Methane < 700 ug/L

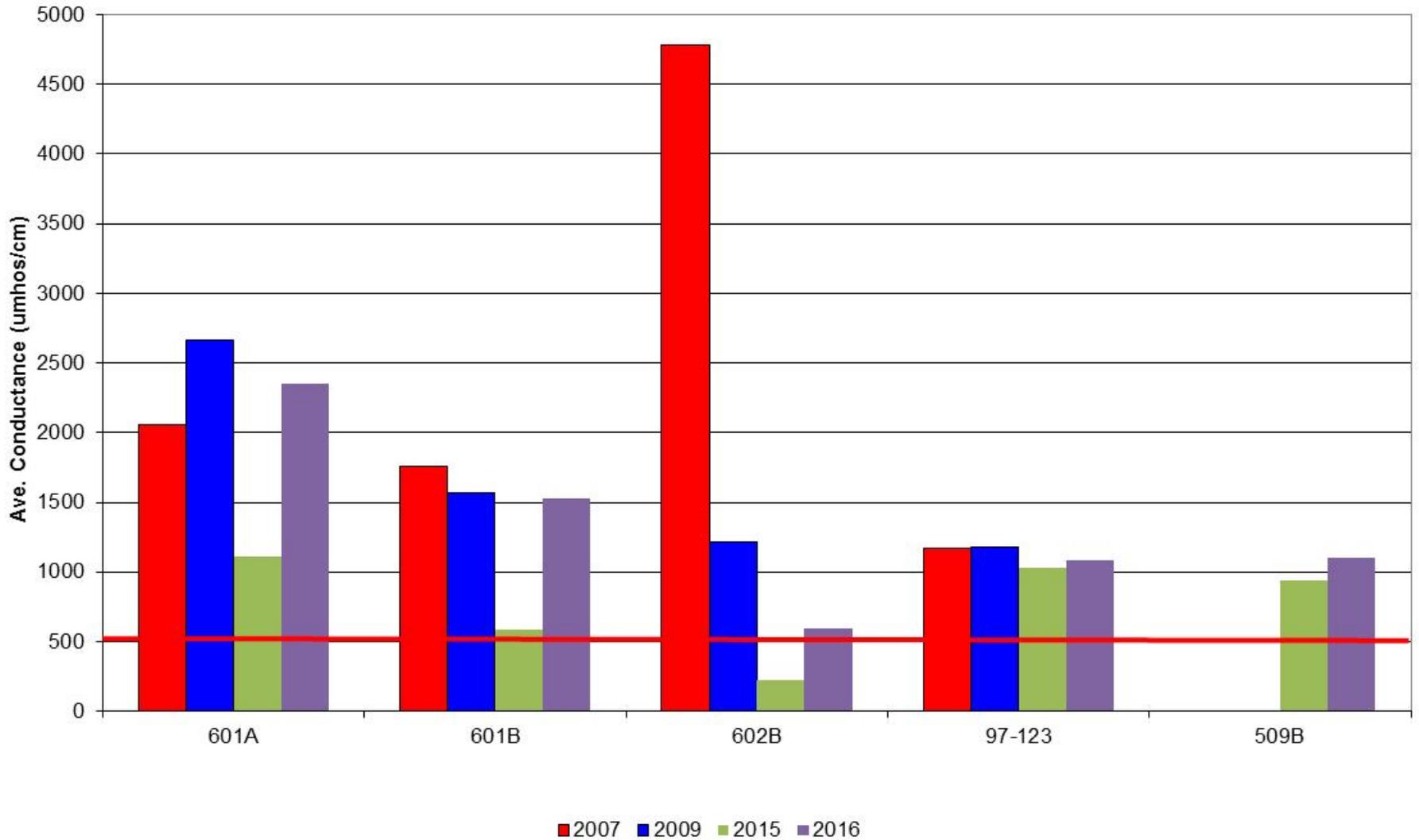
 - Surface Water Quality
 - Must Meet Existing Water Quality Classification Criteria
-

Groundwater Quality to the Northeast

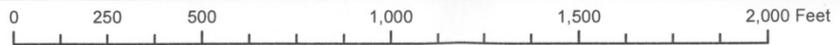
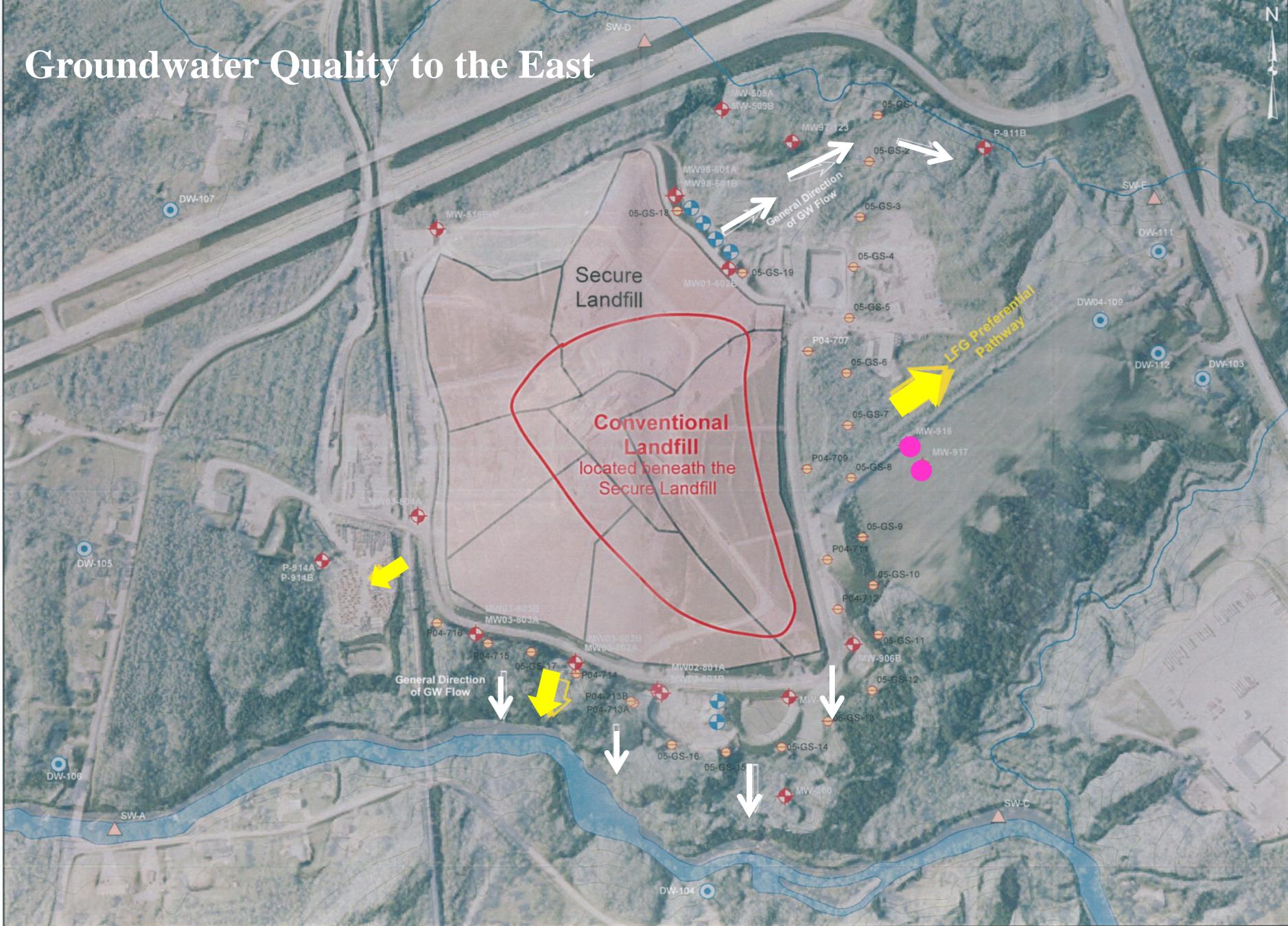


0 250 500 1,000 1,500 2,000 Feet

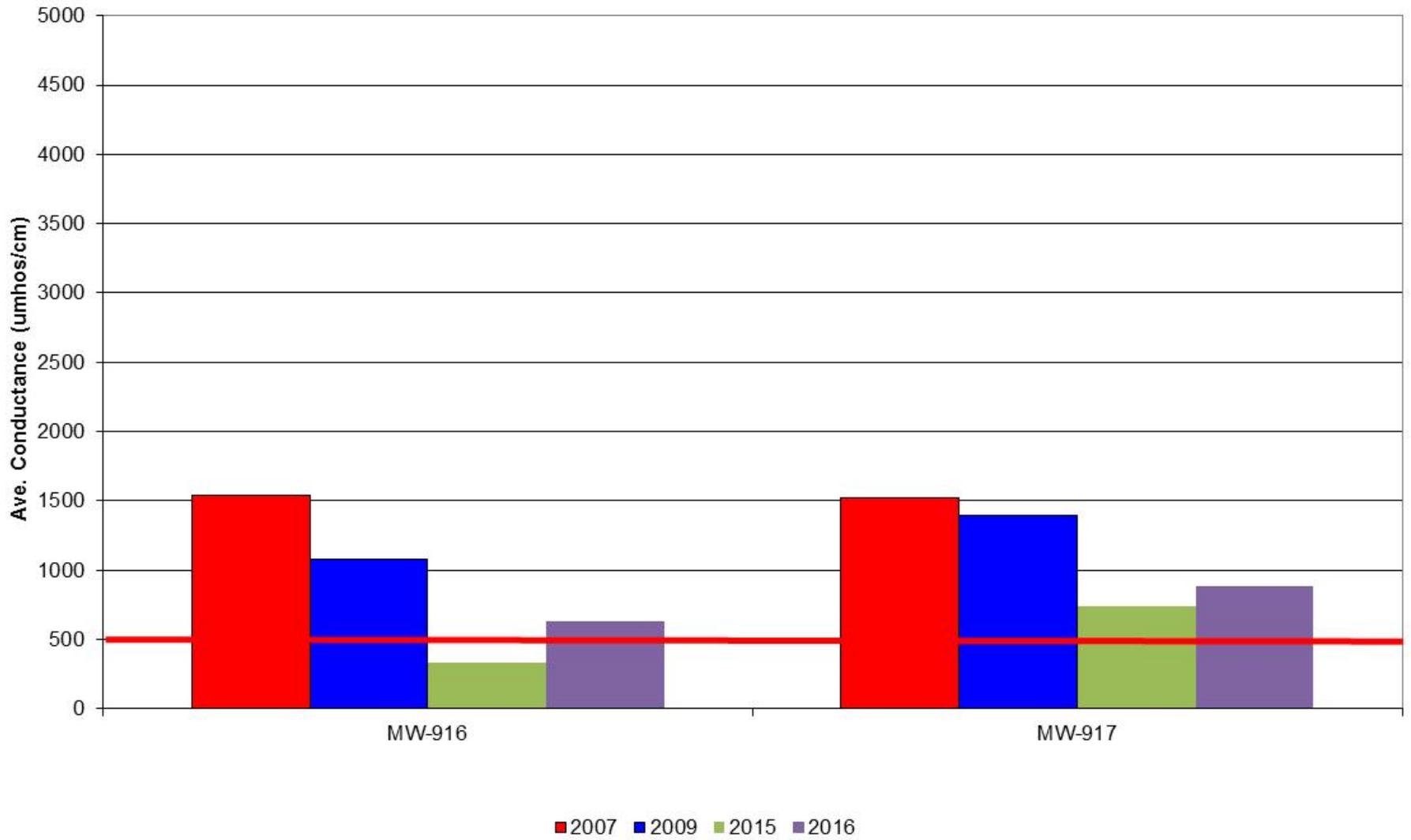
Specific Conductance Data- 2007 - 2009 - 2015 - 2016
Northeast Groundwater Flow Pathway



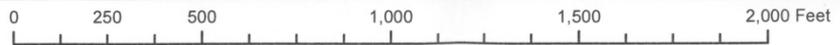
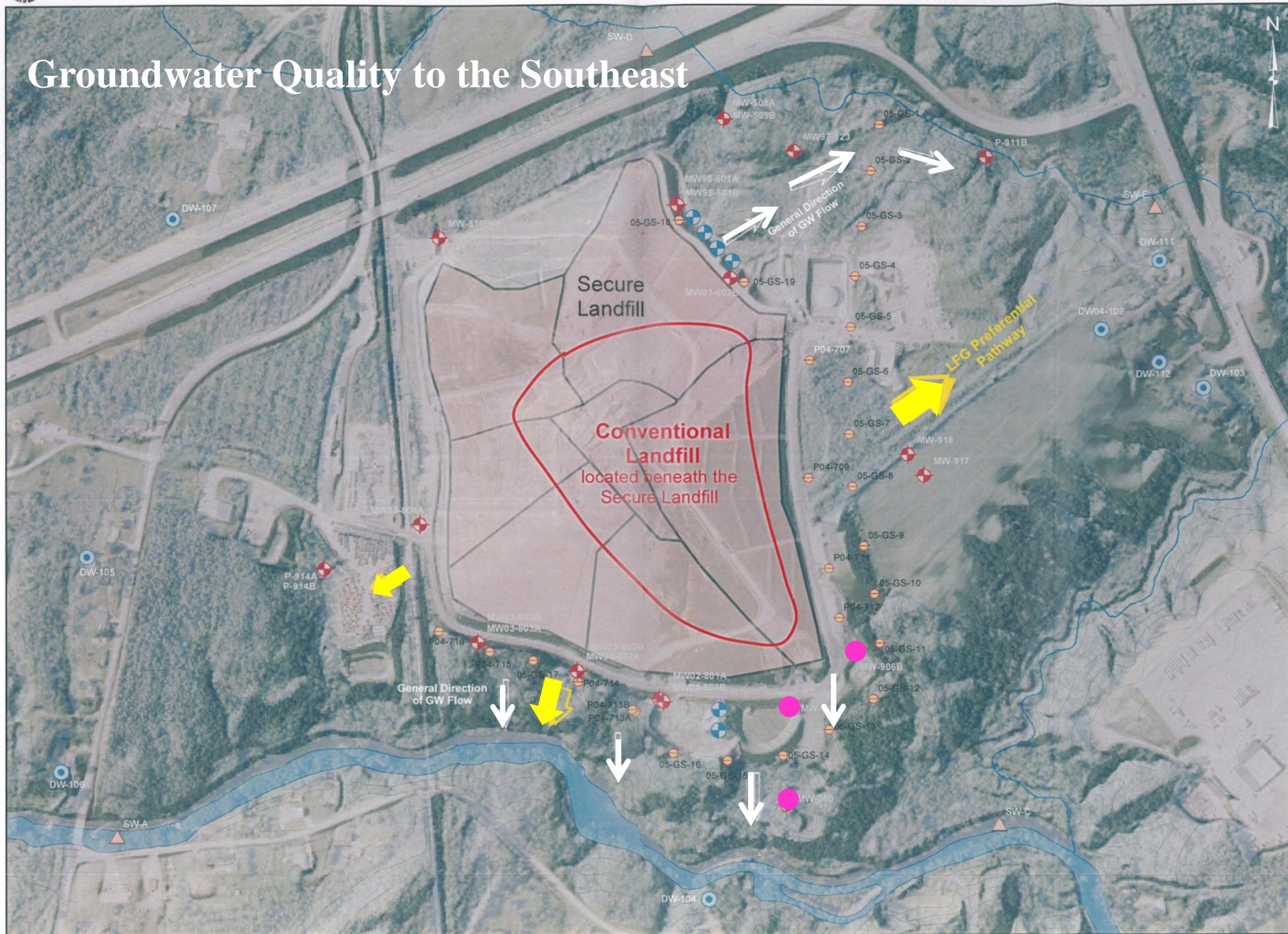
Groundwater Quality to the East



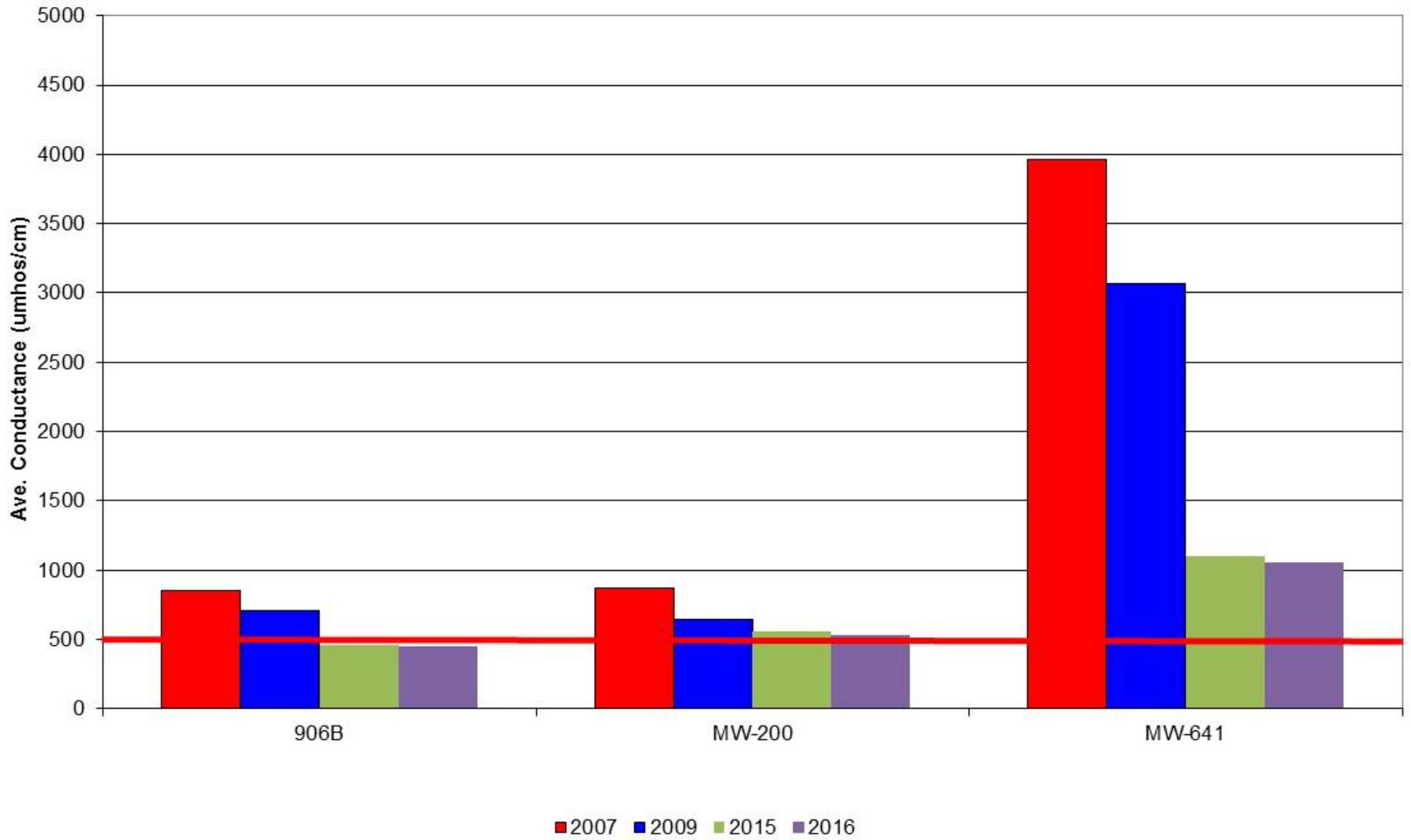
Specific Conductance Data- 2007 - 2009 - 2015 - 2016
Eastern Gas Migration Flow Pathway



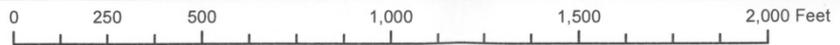
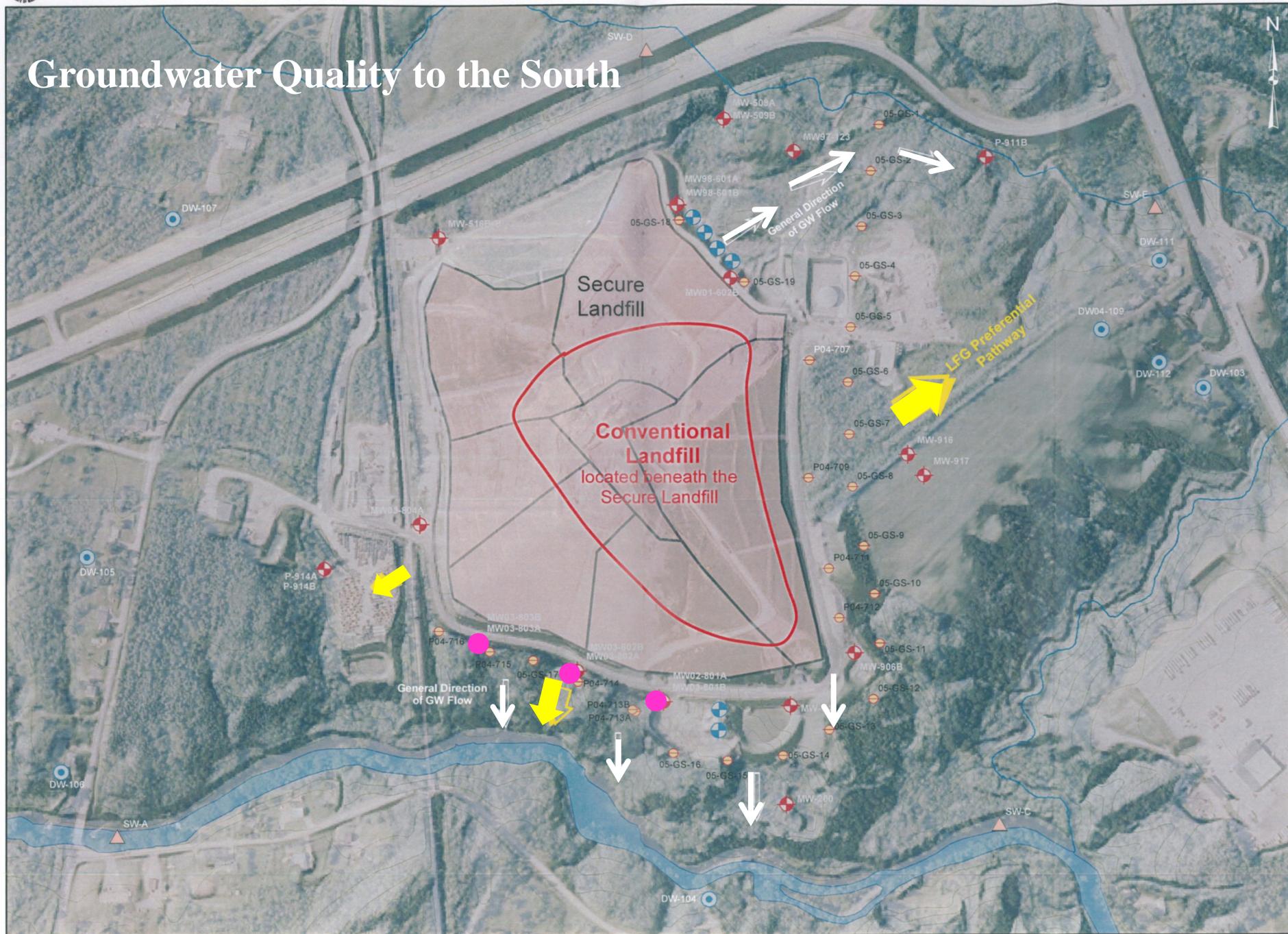
Groundwater Quality to the Southeast



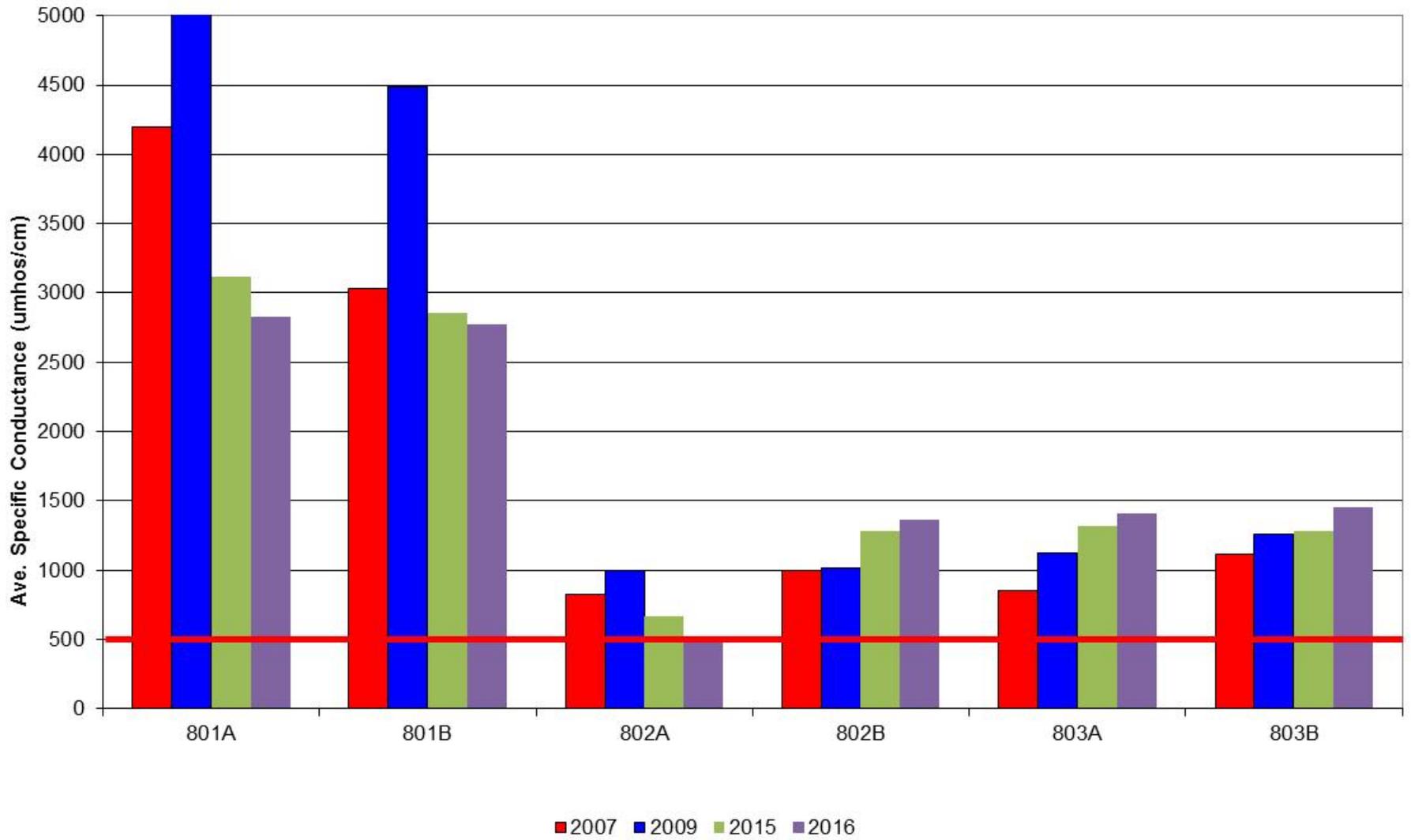
Specific Conductance Data- 2007 - 2009 - 2015 - 2016
Southeast Groundwater Flow Pathway



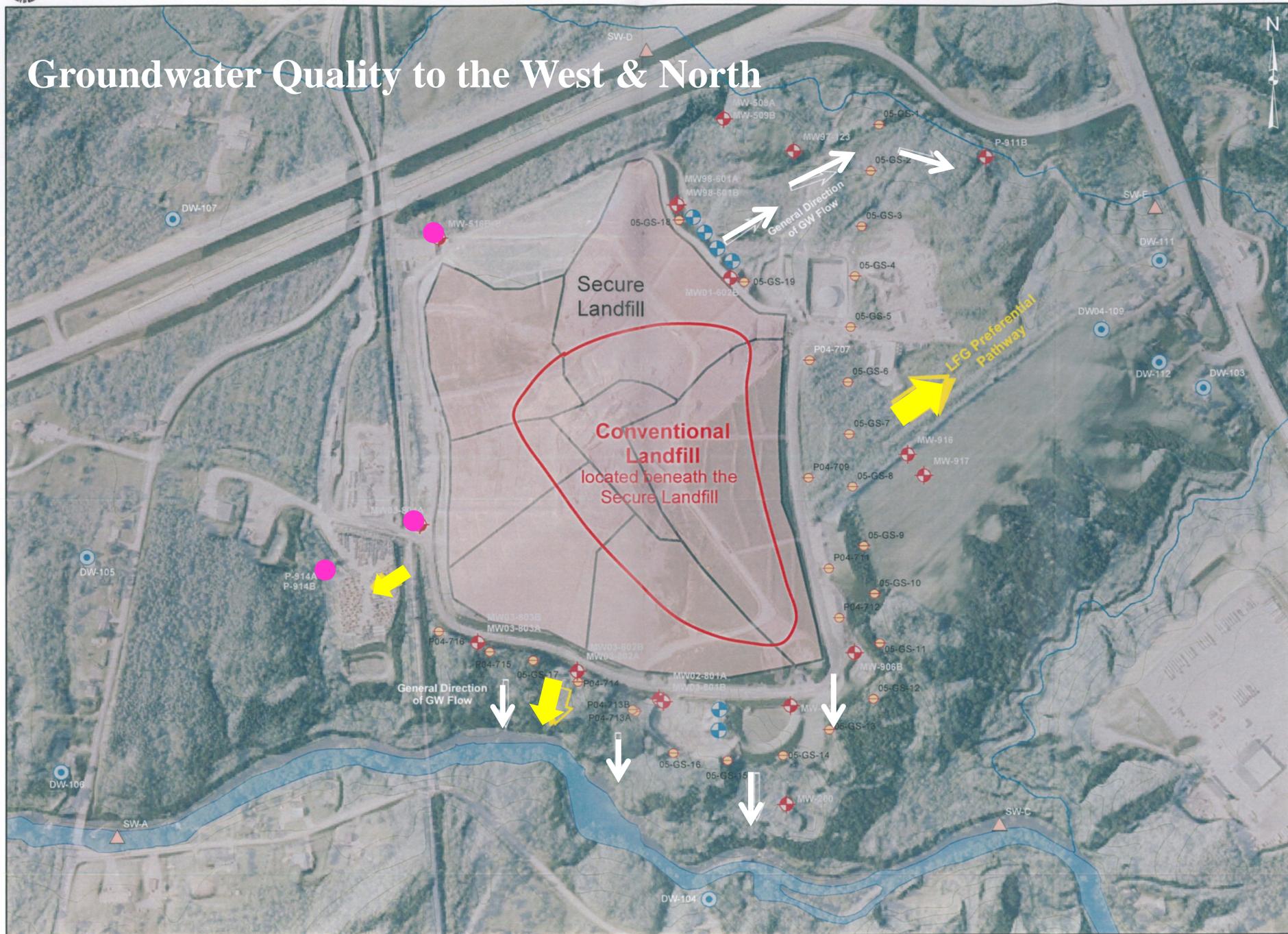
Groundwater Quality to the South



Specific Conductance Data- 2007 - 2009 - 2015 - 2016
South Groundwater & Gas Migration Pathway

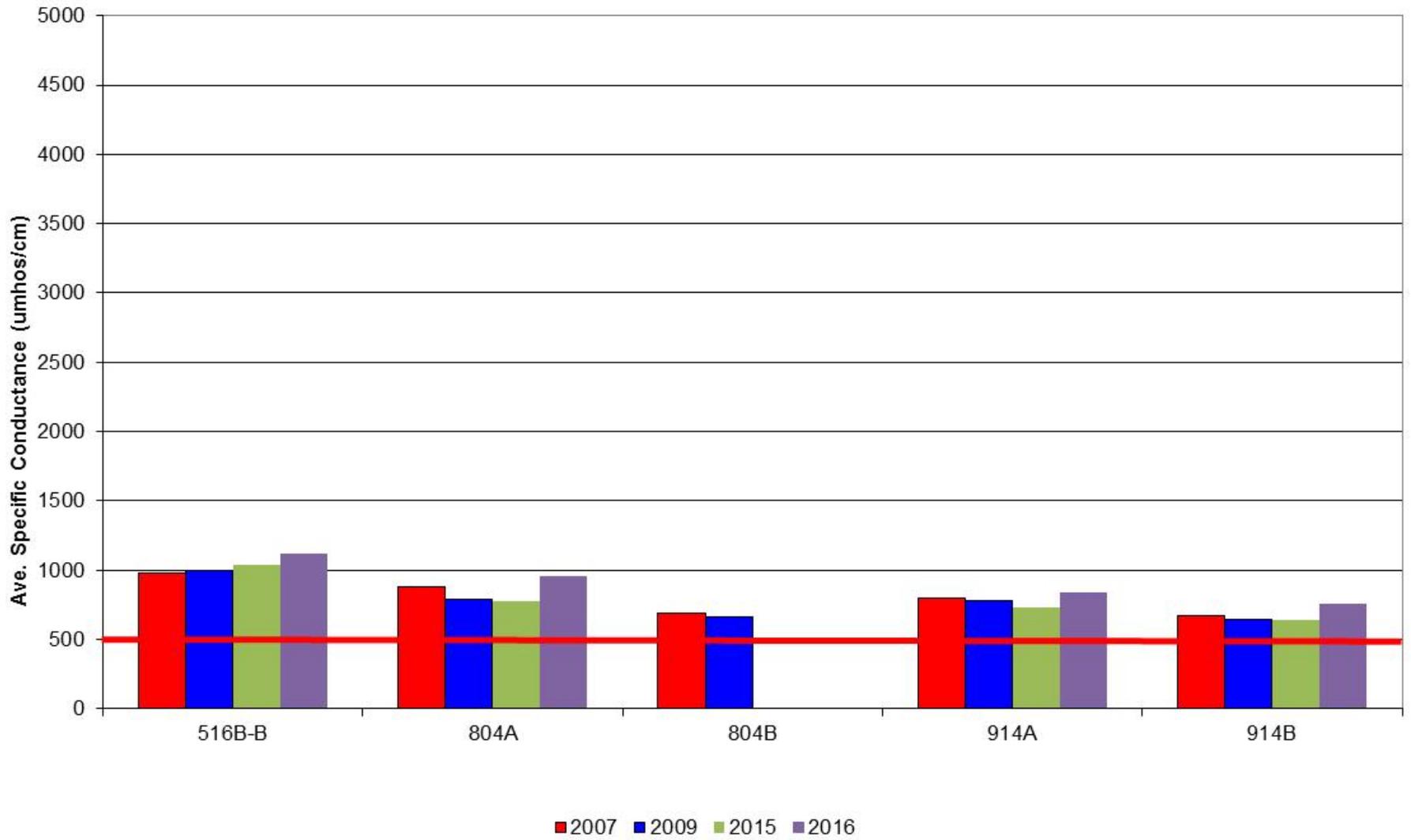


Groundwater Quality to the West & North

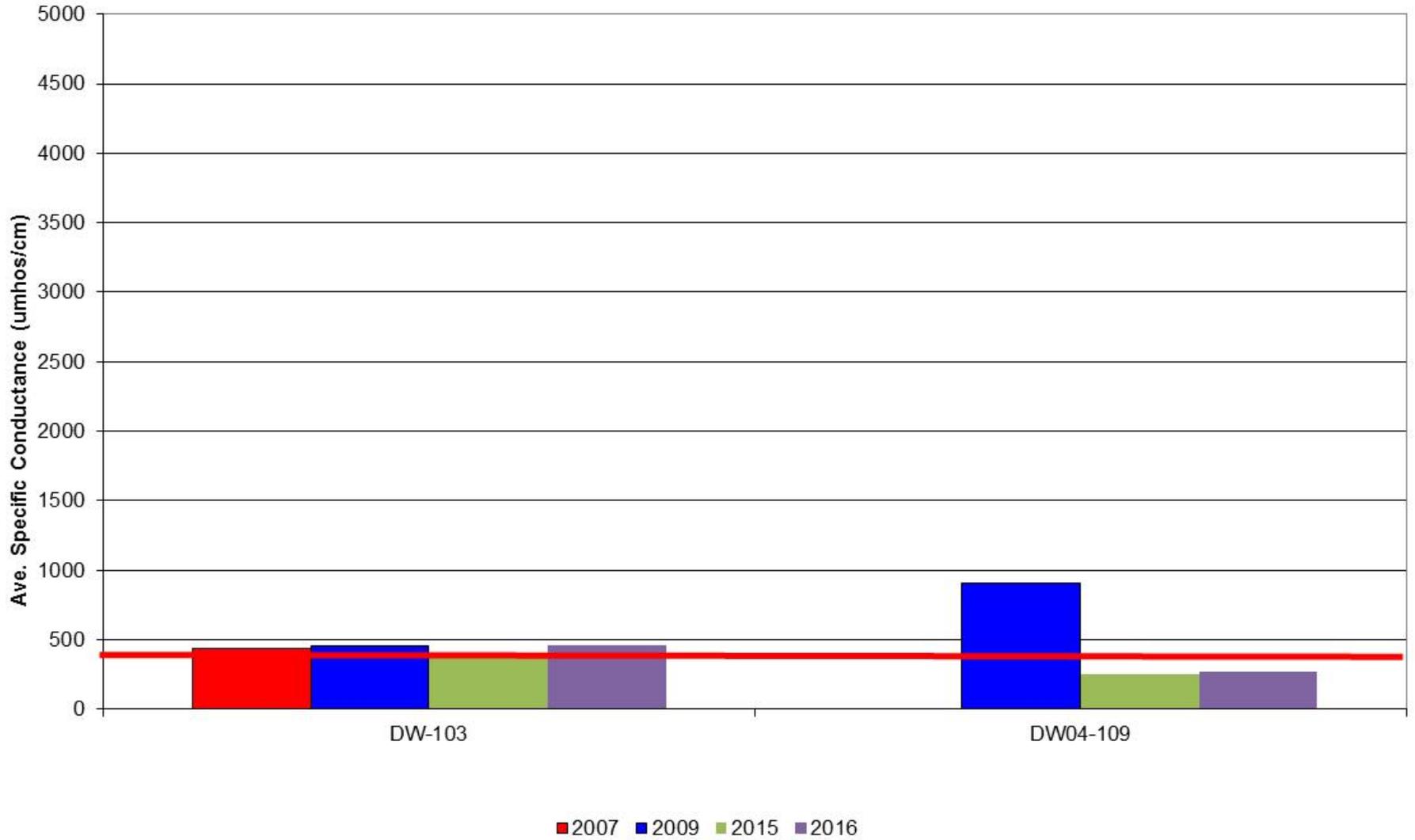


0 250 500 1,000 1,500 2,000 Feet

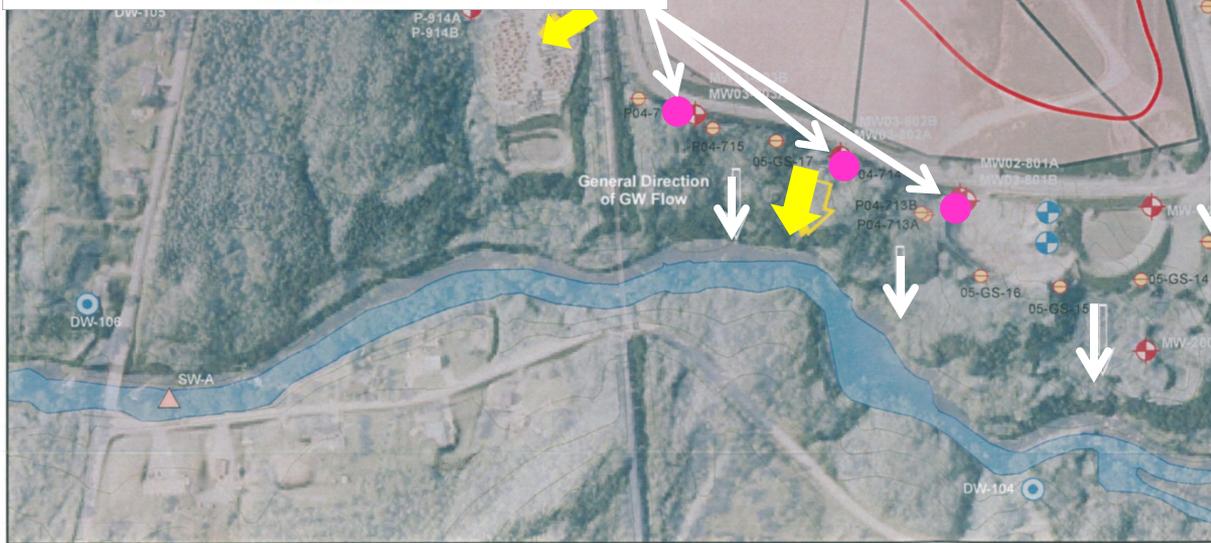
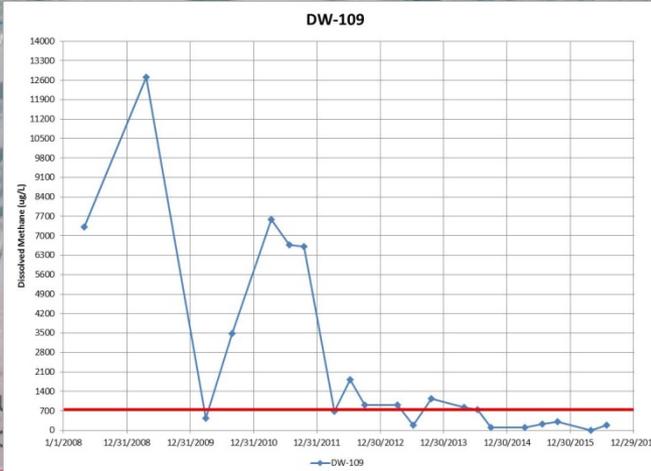
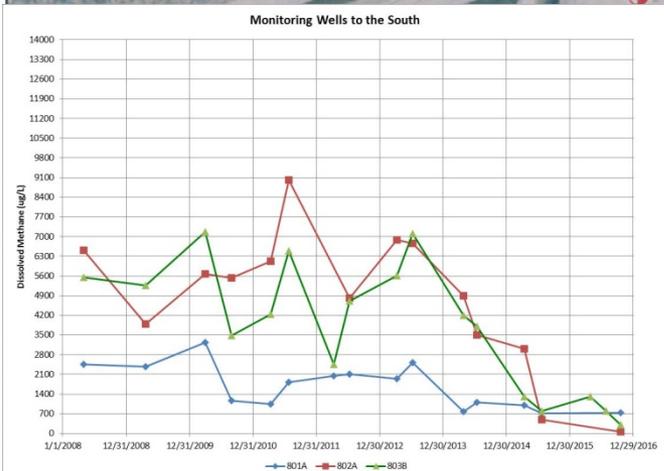
Specific Conductance Data- 2007 - 2009 - 2015 - 2016
West Gas Migration Pathway



Specific Conductance Data- 2007 - 2009 - 2015 - 2016 Off-Site Residential to the East

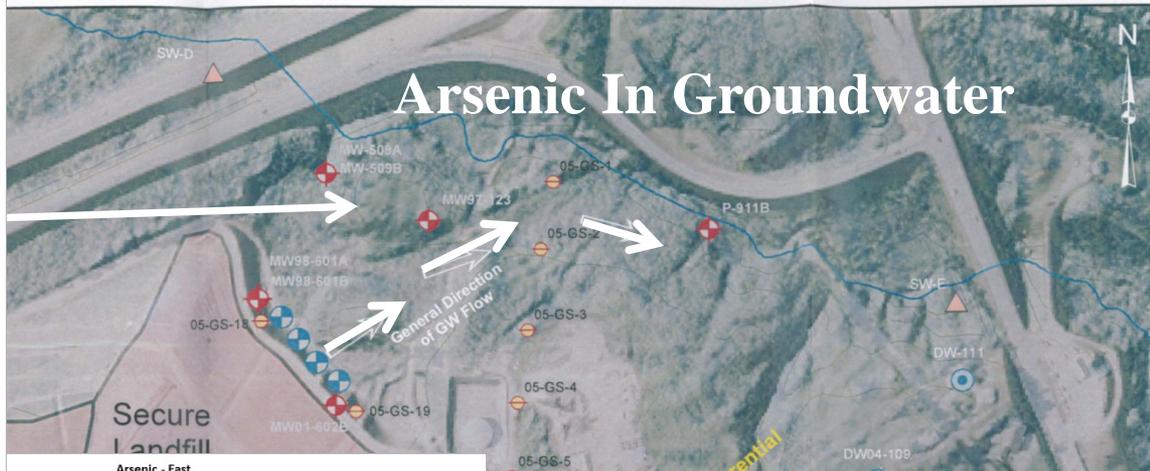
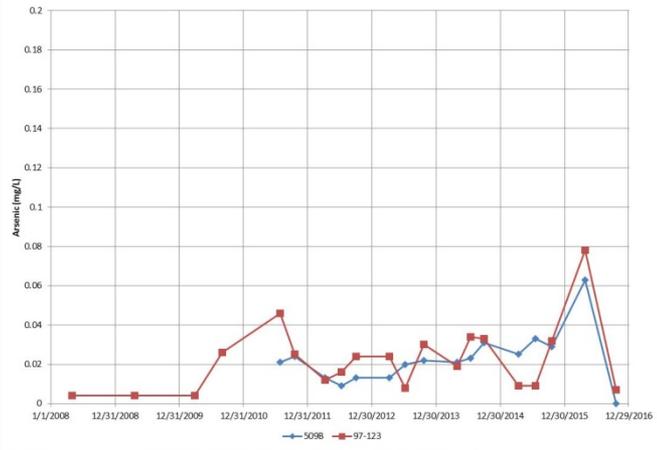


Methane In Groundwater



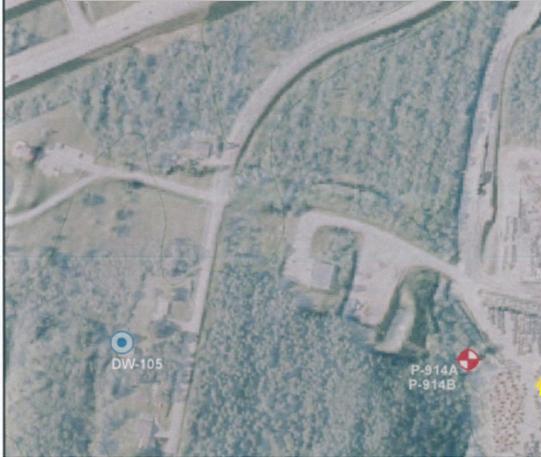
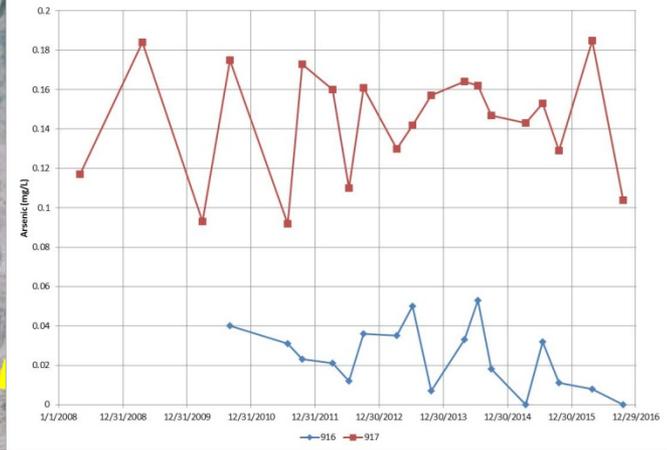
Arsenic In Groundwater

Arsenic - Northeast

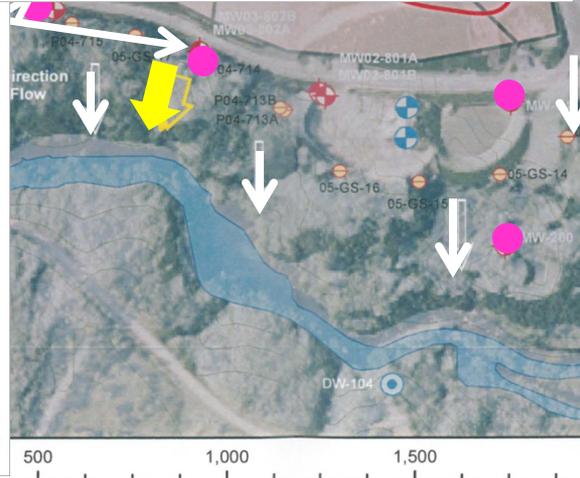
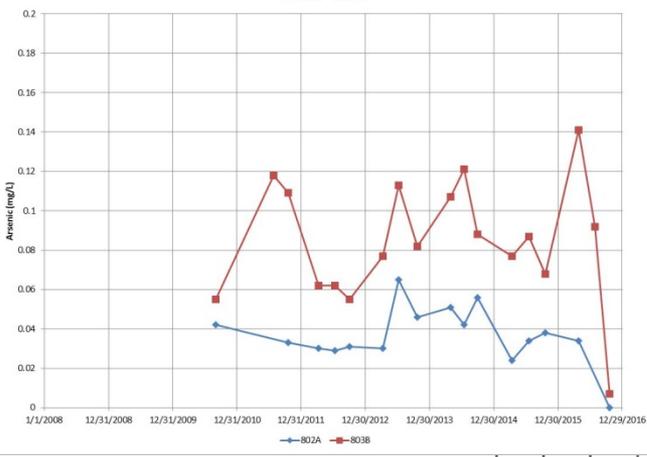


Secure Landfill

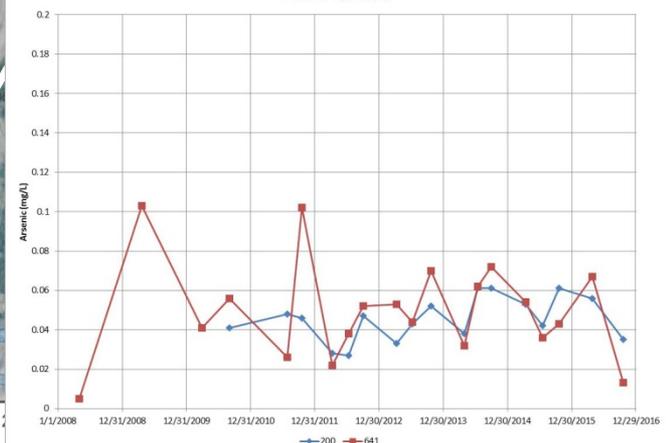
Arsenic - East



Arsenic - South



Arsenic - Southeast



Overview of Water Quality

- **WATER QUALITY DATA INDICATE THAT:**
 - **GROUNDWATER MEETS CONDUCTANCE CRITERIA AT MW-906B & IS CLOSE AT MW-200, -916 & -602B**
 - **MANY WELLS HAVE SLOW DOWNWARD TREND BUT STILL SIGNIFICANTLY ELEVATED**
 - **SOUTHWEST WELLS HAVE ELEVATED CONDUCTANCE BUT LOWER METHANE**
 - **GAS COLLECTION HAS SIGNIFICANTLY LOWERED METHANE CONCENTRATIONS**
 - **AGGRESSIVE OPERATION OF CORRECTIVE ACTIONS GENERALLY IMPROVES WATER QUALITY**
 - **ARSENIC TREND IS NO LONGER UPWARD, BUT IS ELEVATED IN MOST ON-SITE WELLS. ARSENIC IS ABOVE STANDARDS IN DW-103 & 917 OFF-SITE**
 - **SURFACE WATER MEETS APPLICABLE AWQC CRITERIA**
-

ON-GOING MONITORING : 2016 to 2020

- 2 Sampling Events/ Year (Spring & Fall)
- Sampling for Methane 1 time/year
- Continue with all wells except DW-111 (inaccessible)
- Reducing Regular Leachate Sampling to 2 Locations

Eagle Scout Service Project Proposal

Project Description and Benefit

Eagle Scout candidate: **Levi Husson**

Briefly describe the project. Attach sketches or "before" photographs if these will help others visualize it.

Building a 60 ft. by 12 ft. bocce ball court and 2 benches to benefit the town of Hampden, as well as the Special Olympics of Maine.

Tell how your project will be helpful to the beneficiary. Why is it needed?

My project will provide a place to play bocce in Hampden, which there currently is none, and it will be giving the Special Olympics of Maine a place to play bocce as well.

When do you plan to begin work on the project? **I plan to begin working during the Spring of 2018**

How long do you think it will take to complete? **This project will take 4-6 weeks to complete**

Giving Leadership

Approximately how many people will be needed to help on your project? **20 to 25 people**

Where will you recruit them (unit members, friends, neighbors, family, others)? Explain:

I plan to utilize friends, troop members, family, parents, and some professionals. I will recruit at scout meetings and I will approach businesses/the town to level the ground.

What do you think will be most difficult about leading them?

I think the hardest part will be keeping everyone focused and keeping up a steady work flow. Another hard part will be coordinating what each person will be doing, as well as making and keeping a common goal.

Materials

(Materials are things that become part of the finished project, such as lumber, nails, and paint)

What types of materials, if any, will you need? You do not yet need a detailed list of exact quantities, but you must show you have a reasonable idea of what is required.

wood/composite material
stone dust/fine gravel
2x6 bolts
Wood Screws
1ft. stakes
paver base- 6.61 sq yards

Supplies

(Supplies are things you use up, such as masking tape, tarps, and garbage bags)

What kinds of supplies, if any, will you need? You do not yet need a detailed list or exact quantities, but you must show you have a reasonable idea of what is required.

Trash bags
work gloves
safety glasses
dust masks
Bocce Ball set

Eagle Scout Service Project Proposal

Tools

What kinds of tools, if any, will you need?

Saws, Earth moving tools: Shovels, Rakes, etc., screwdrivers, grade stakes, level lines, levels, drills, sander/sand paper, paint brushes, buckets, sod cutter.

Permits and Permissions

(Note that property owners normally secure permits.)

Will you need to secure permissions or permits (for example, building permits)? Who will obtain them?

How much will they cost? How long will it take to secure them?

The town will obtain all permits, no other permits required.

Preliminary Cost Estimate

(You do not need exact costs. Reviewers will just want to see if you can reasonably expect to raise enough money to cover an initial estimate of expenses.)

(Enter your estimated expenses) **Fundraising** Explain where you will get the money for total costs indicated below, left.

Items	Cost	Contact businesses to seek donations, and fundraise (bottle drives, yard sales, cleanups, etc.)
Materials	\$700	
Supplies	\$100	
Tools	\$100	
Other*	\$50	
Total costs:	950	

*Such costs as food, water, gasoline, parking, permits, equipment rental, sales tax, etc.

Project Phases

Think of your project in terms of phases and list what they might be. The first might be to complete your final plan. Others might include fundraising, preparation, execution, and reporting. You may have as many phases as you want, but it is not necessary to become overly complicated.

1. Plan Project and complete proposal

2. Fundraise and seek donations

3. Purchase tools and materials

4. Recruit help

5. Level Area

6. Build base and walls

7. Lay top layer on

8. Build benches

Logistics

(A Tour Plan has also been called a "Tour Permit." Check with your council service center to determine if one is required.)

How will you handle transportation of materials, supplies, tools, and helpers? Will you need a Tour Plan?

Transport materials in pickup trucks, etc.

Contact volunteers about transportation and any personal tools

No tour plan, everyone arriving in family vehicle

Eagle Scout Service Project Proposal, continued

Safety Issues

(The Guide to Safe Scouting is an important resource in considering safety issues.)

Describe the hazards and safety concerns you and your helpers should be aware of as this project is conducted.

Sun protection, Lifting Materials, Hydration,
Stain and paint-Ventilation, Sawdust-Breathing masks and eye protection,
Power Tools- Only Adults can use power tools

Further Planning

(You do not have to list every step, but it must be enough to show you have a reasonable idea of how to complete a final plan.)

List some action steps you will take to complete a final plan. For example, "Complete a more detailed set of drawings."

Take before and after photos
Complete a more detailed set of drawings
Complete a more detailed list of tools and materials
Put together a more complete schedule, including dates and times

Candidate's Promise

(Signed before approvals below are granted)

On my honor as a Scout, I have read this entire workbook, including the "Message to Scouts and Parents or Guardians" on page 21. I promise to be the leader of this project, and to do my best to carry it out for the maximum benefit to the religious institution, school, or community I have chosen as beneficiary.

Signed _____ Date _____

Unit Leader Approval*

I have reviewed this proposal and discussed it with the candidate. I believe it provides impact worthy of an Eagle Scout service project, and will involve planning, development, and leadership. I am comfortable the Scout understands what to do, and how to lead the effort. I will see that the project is monitored, and that adults or others present will not overshadow him.

Signed _____ Date _____

Unit Committee Approval*

This Eagle Scout candidate is a Life Scout, and registered in our unit. I have reviewed this proposal, I am comfortable the project is feasible, and I will do everything I can to see that our unit measures up to the level of support we have agreed to provide (if any). I certify that I have been authorized by our unit committee to provide its approval for this proposal.

Signed _____ Date _____

Beneficiary Approval*

This service project will provide significant benefit, and we will do all we can to see it through. We realize funding on our part is not required, but we have informed the Scout of the financial support (if any) that we have agreed to. We understand any fundraising he conducts will be in our name and that funds left over will come to us. We will provide receipts to donors as required.

Signed _____ Date _____

Council or District Approval

I have read sections 9.0.2.0 through 9.0.2.15, regarding the Eagle Scout Service Project, in the Guide to Advancement, No. 33088. I agree on my honor to apply the procedures as written, and in compliance with the policy on "Unauthorized Changes to Advancement." Accordingly, I approve this proposal. I will encourage the candidate to complete a final plan and further encourage him to share it with a project coach.

Signed _____ Date _____

**While it makes sense to obtain them in the order they appear, there shall be no required sequence for the order of obtaining approvals marked with an asterisk (*). However, council or district approval must come after the others.*



Angus Jennings <townmanager@hampdenmaine.gov>

Re: Eagle Proposal

1 message

Angus Jennings <townmanager@hampdenmaine.gov>

Thu, Sep 21, 2017 at 1:18 PM

To: "Hampden Recreation Dept." <recreation@hampdenmaine.gov>

Cc: Sean Currier <publicworks@hampdenmaine.gov>, Paula Scott <clerk@hampdenmaine.gov>

I spoke w Paula about this and **we think that a vote of the Council to authorize the work on town land will be adequate.**

I agree with the approach to permitting, consistent with prior such projects.

As a courtesy I will share the proposal with VFW; I mentioned it to Curt Slininger when he was in this morning on another matter. I already had planned to attend the 10/3 VFW meeting so have added this as an item I can present to them.

We'll want all participating volunteers to sign an indemnification form. I will re-review, and have asked Paula to also review, a few materials that MMA's Risk Management office provided me in the fall of 2015 regarding oversight of volunteer work. If we think we'll need anything beyond the indemnification form we'll identify this so it can be addressed early. I agree that the proposed spring construction timeline gives us a little breathing room.

Angus

On Thu, Sep 21, 2017 at 1:07 PM, Hampden Recreation Dept. <recreation@hampdenmaine.gov> wrote:

I spoke with his grandmother/guardian the other night at the school open house. She told me he was approved to move ahead and had forwarded materials to you Sean. Let me know what you'd like me to help with. Looks like a spring 2018 time frame so no urgency now. I did mention this at a Services Committee meeting over the summer. Typically when I have been involved in Eagle process we go through permitting for them at the Town Council level and work as liaisons for the project through completion.

Shelley

On Thu, Sep 21, 2017 at 8:26 AM, Angus Jennings <townmanager@hampdenmaine.gov> wrote:

Yes, definitely. I'm sure we can facilitate a smooth process for this but getting the info shared early will help.

On Thu, Sep 21, 2017 at 7:41 AM, Sean Currier <publicworks@hampdenmaine.gov> wrote:

Angus, should we include this in the Monday Infrastructure meeting? I'm not sure of the process the Eagle Scout will need to go thru with the Town to get this approved for install at the VFW Field complex.

Thanks,

Sean

Sean Currier
Public Works Director
Town of Hampden
106 Western Avenue
Hampden, ME 04444
(207)862-3337

----- Forwarded message -----

From: **Darth Chimichanga** <theshredder3958@gmail.com>

Date: Wed, Sep 20, 2017 at 2:38 PM

Subject: Eagle Proposal

To: publicworks@hampdenmaine.gov

Town of Hampden
106 Western Avenue
Hampden, Maine 04444



Phone: (207) 862-3034
Fax: (207) 862-5067
Email:
townmanager@hampdenmaine.gov

TO: Infrastructure Committee
FROM: Angus Jennings, Town Manager
DATE: September 21, 2017
RE: Replacement options for John Deere backhoe

In 2012 the Town entered a 5-year lease-purchase agreement for a John Deere 310SK Backhoe Loader. The fifth (of 5) payments (\$13,449) was a budgeted FY18 operating expense and will be sent this month.

At that time, under the terms of the initial financing the Town has two options: purchase the backhoe for \$1; or exchange the backhoe for a new backhoe with a guaranteed buy-back of \$48,800 toward a purchase price of \$114,000, for a net cost of \$65,200. We have received a five year financing proposal of \$14,258/year with the first payment due September 2018, including a guaranteed buy-back of the vehicle for \$53,000 at the end of 5 years. The financing offer would include repair costs for non-wear items during the 5 year term.

The Capital Program reviewed during the FY17 budget process (prior to receiving a specific financing proposal) carried \$14,564 for the next five years (beginning in FY19) in anticipation of backhoe replacement, so the proposal is in line with (and slightly favorable to) estimates.

It is recommended that we proceed with an exchange of the current backhoe for a new machine, to be financed over 5 years. This would leverage the value of the current machine, ensure a reliable machine for the term of the financing, with repair costs included, and would include a guaranteed buy-back after 5 years. This lease also includes a loaner machine if the maintenance item cannot be fixed within 48 hours.

The proposed financing is enclosed for review.

Quote Id: 16100027

Prepared For:
HAMPDEN PUBLIC WORKS DIRECTOR



Prepared By: **MIKE MCHUGH**

Nortrax, Inc.
34 Page Rd W
Hermon, ME 044017219

Tel: 207-947-6786
Mobile Phone: 207-478-8471
Fax: 207-947-1529
Email: mike.mchugh@nortrax.com

Quote Summary

Prepared For:
HAMPDEN PUBLIC WORKS DIRECTOR
106 Western Ave
Hampden, ME 04444

Prepared By:
MIKE MCHUGH
Nortrax, Inc.
34 Page Rd W
Hermon, ME 044017219
Phone: 207-947-6786
Mobile: 207-478-8471
mike.mchugh@nortrax.com

Quote Id: 16100027
Created On: 21 September 2017
Last Modified On: 22 September 2017
Expiration Date: 27 October 2017

Equipment Summary	Selling Price	Qty	Extended
2017 JOHN DEERE 310SL BACKHOE LOADER - 1T0310SLHHF309713	\$ 114,000.00 X	1 =	\$ 114,000.00

Equipment Total **\$ 114,000.00**

Trade In Summary	Qty	Each	Extended
JOHN DEERE 310SK LOADER BACKHOE	1	\$ 48,800.00	\$ 48,800.00
PayOff			\$ 0.00
Total Trade Allowance			\$ 48,800.00

Trade In Total **\$ 48,800.00**

Quote Summary	
Equipment Total	\$ 114,000.00
Trade In	\$ (48,800.00)
SubTotal	\$ 65,200.00
Total	\$ 65,200.00
Balance Due	\$ 65,200.00

Salesperson : X _____

Accepted By : X _____

Selling Equipment

Quote Id: 16100027

Customer: HAMPDEN PUBLIC WORKS DIRECTOR

2017 JOHN DEERE 310SL BACKHOE LOADER - 1T0310SLHHF309713

Hours: 7
Stock Number: 109412

Code	Description	Qty
0A70T	CAB,FT4,EXT,19.5L-24,PILOT,AUX HYD1.3 CY BKT,24" BKT	1
Standard Options - Per Unit		
0A70T1065	ENGINE FT4	1
0A70T1710	JD LINK ULT 850 5YR.	1
0A70T2035	CAB STANDARD	1
0A70T2401	DECAL ENG W/ENG PACKET	1
0A70T3065	AXLE MFWD W/LIMITED SLIP	1
0A70T4464	TIRE GAL 19.5L24 12.5/80-18	1
0A70T5285	CONTROL PILOT	1
0A70T5400	COUPLER LESS	1
0A70T5658	BUCKET 24" SEVERE DUTY 7.5CF	1
0A70T6020	DIPPER EXTENDABLE	1
0A70T6230	HYD,AUX W/2WAY FLOW, THUMB	1
0A70T7025	LDR SINGLE LEVER NO AUX	1
0A70T7645	LDR BKT 1.3CY LG LIP BKT 92"	1
0A70T8485	COUNTERWEIGHT 1250LB.	1
0A70T8675	BATTERY DUAL	1
0A70T9045	CHROME EXHAUST	1
0A70T9080	HEATER ENGINE COOLANT 110V	1
0A70T9110	RIDE CONTROL	1
0A70T9140	BUCKET CYLINDER HEAVY DUTY	1
0A70T9505	GUARD FULL MFWD	1
0A70T9515	FLUID SAMPLING	1
0A70T9917	RADIO BASIC PACKAGE	1
0A70T9965	SEAT CLOTH AIR SUSPENSION	1
Dealer Attachments		
	wain roy wrist with clean up and dig bucket	1
	12" wain roy digging bucket	1
	front fenders	1
	strobe	1
	outside mirrors	1
	fire extinguisher	1
	hyd thumb with diverter valve	1
	full machine coverage for 5 years	1

Selling Equipment

Quote Id: 16100027

Customer: HAMPDEN PUBLIC WORKS DIRECTOR

replacement machine provided as required	1
spare tire and rim, front and rear	1