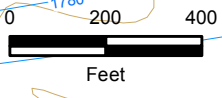
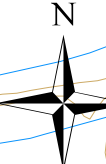
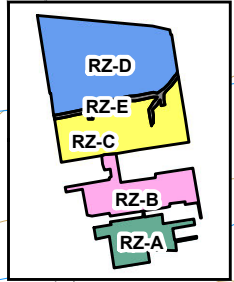


REMEDIATION ZONES (A-E)



Legend	
•	Sample Location
—	Flow Path
—	Potentiometric Contour (ft)
—	Land Surface Elevation Contours (ft)
—	Theissen Polygon Boundary
—	Proposed Institutional/Engineering Control Area
—	Remediation Zones

SHEET NUMBER:  
1

FIGURE NUMBER:  
3-1

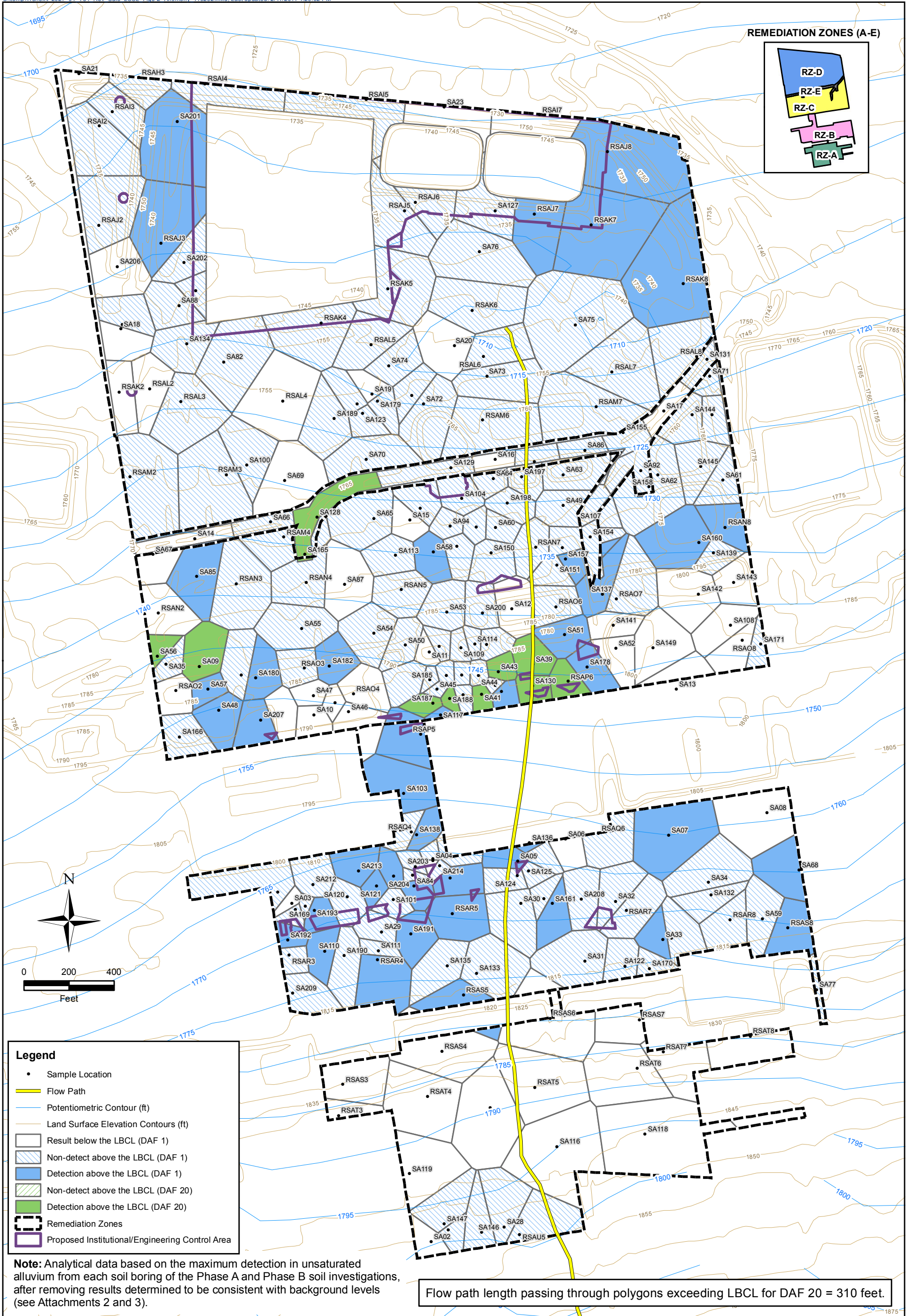
<b>Leaching Analysis Flow Paths</b>		
Revised Technical Memorandum: Calculation of LSSLs Tronox LLC Henderson, Nevada		
SCALE: 1 in = 400 ft	DATE: 2/4/2011	PROJECT NUMBER: 2027.01 T51

DESIGNED BY:		REVISIONS	
NGEM	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
MW			
CHECKED BY:			
SM			
APPROVED BY:			
TB			

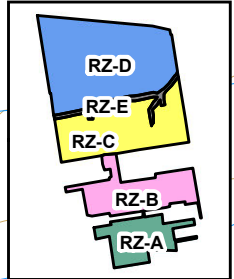
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environmental management, inc.

**TRONOX** ngem.com





REMEDIATION ZONES (A-E)



Legend

- Sample Location
- Flow Path
- Potentiometric Contour (ft)
- Land Surface Elevation Contours (ft)
- Result below the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 1)
- Detection above the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 20)
- Detection above the LBCL (DAF 20)
- ⬢ Remediation Zones
- ⬢ Proposed Institutional/Engineering Control Area

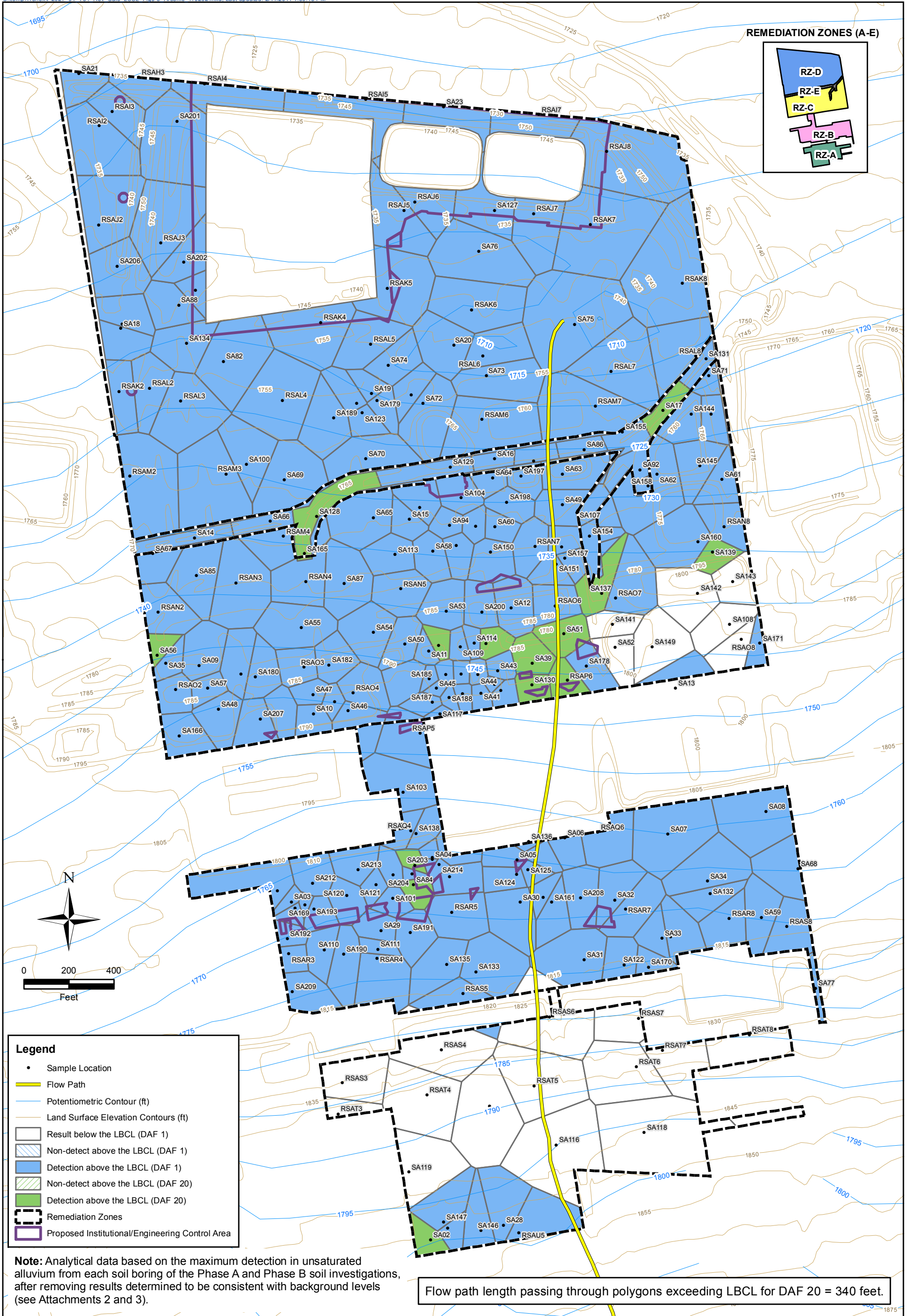
**Note:** Analytical data based on the maximum detection in unsaturated alluvium from each soil boring of the Phase A and Phase B soil investigations, after removing results determined to be consistent with background levels (see Attachments 2 and 3).

Flow path length passing through polygons exceeding LBCL for DAF 20 = 310 feet.

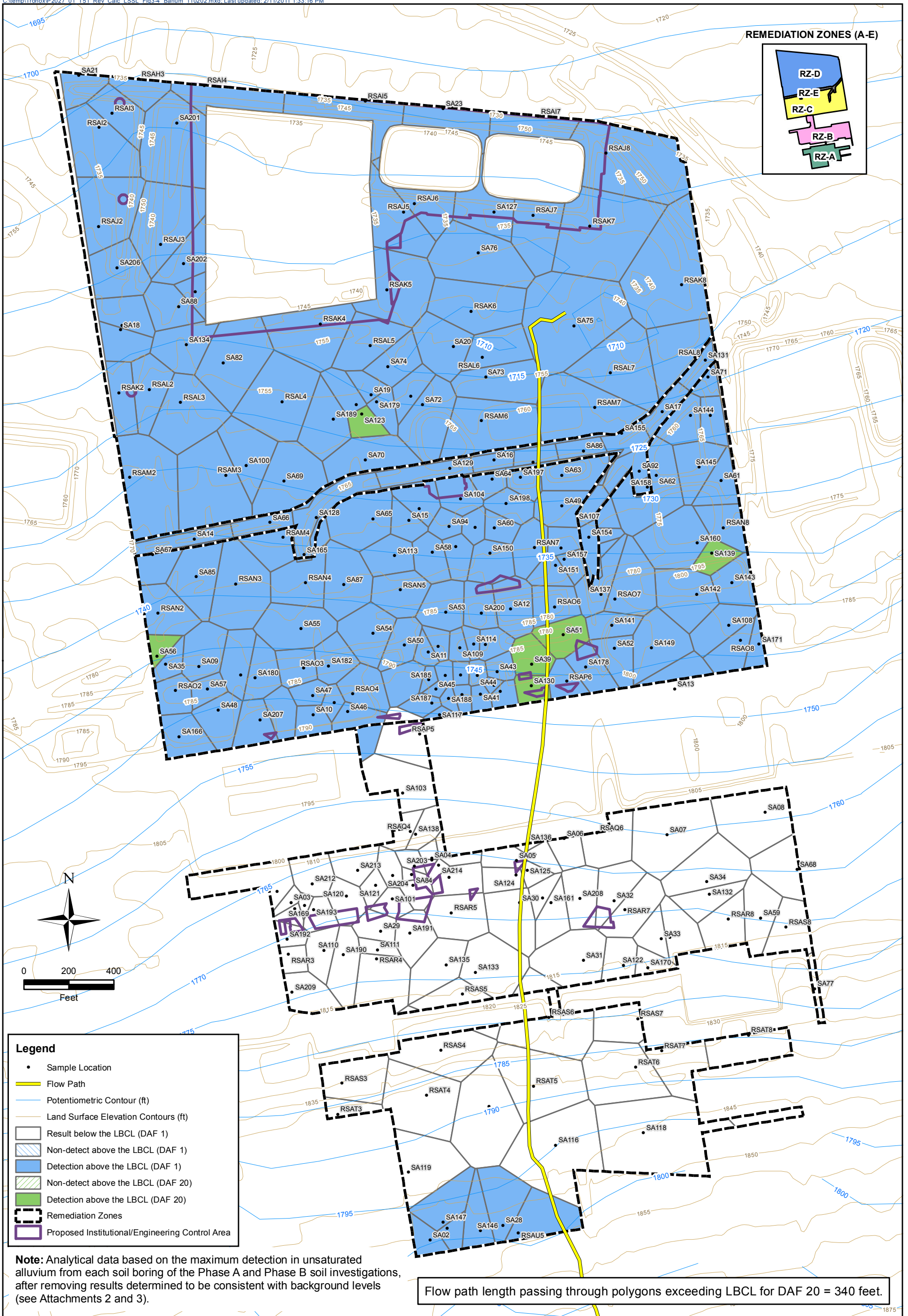
SHEET NUMBER: 1	FIGURE NUMBER: 3-2	<b>Antimony in Soil</b>		DESIGNED BY: NGEM				REVISIONS					
		Revised Technical Memorandum: Calculation of LSSLs Tronox LLC Henderson, Nevada		DRAWN BY: MW		NO.:		DESCRIPTION:		DATE:		BY:	
SCALE: 1 in = 400 ft		DATE: 2/4/2011		PROJECT NUMBER: 2027.01 T51		CHECKED BY: SM		APPROVED BY: TB		TRONOX		ngem.com	



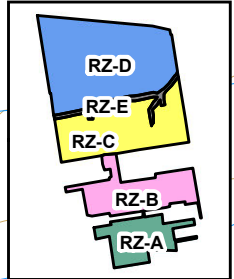








REMEDIATION ZONES (A-E)



Legend

- Sample Location
- Flow Path
- Potentiometric Contour (ft)
- Land Surface Elevation Contours (ft)
- Result below the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 1)
- Detection above the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 20)
- Detection above the LBCL (DAF 20)
- Remediation Zones
- Proposed Institutional/Engineering Control Area

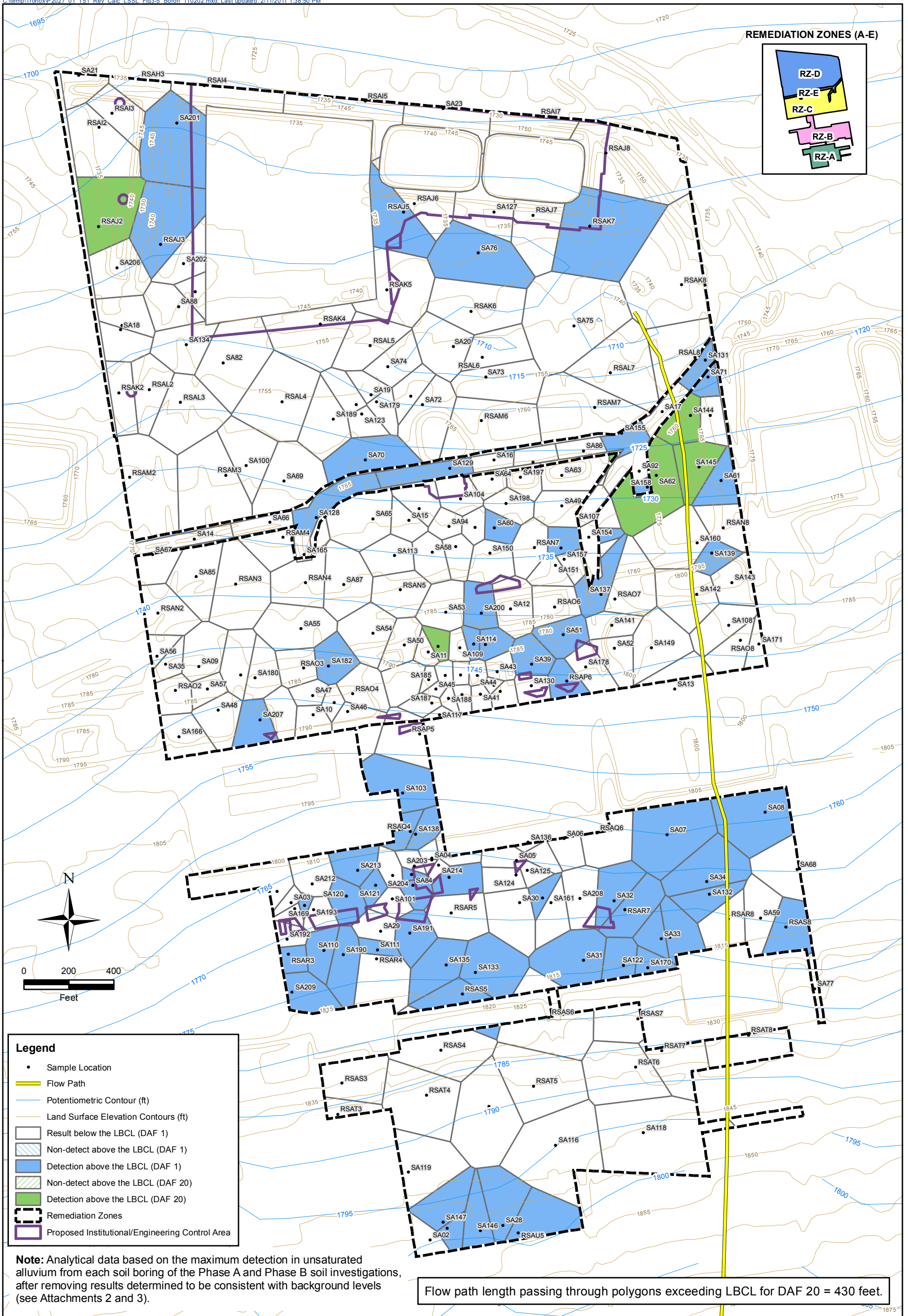
**Note:** Analytical data based on the maximum detection in unsaturated alluvium from each soil boring of the Phase A and Phase B soil investigations, after removing results determined to be consistent with background levels (see Attachments 2 and 3).

Flow path length passing through polygons exceeding LBCL for DAF 20 = 340 feet.

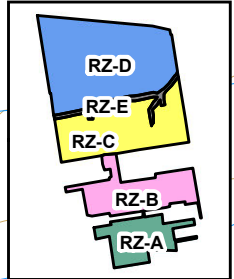
SHEET NUMBER: 1	FIGURE NUMBER: 3-4	<b>Barium in Soil</b>		DESIGNED BY: NGEM				REVISIONS				
		Revised Technical Memorandum: Calculation of LSSLs Tronox LLC Henderson, Nevada		NO.:	DESCRIPTION:	DATE:	BY:					
		SCALE:	DATE:	PROJECT NUMBER:								
		1 in = 400 ft	2/4/2011	2027.01 T51								
				DRAWN BY: MW								
				CHECKED BY: SM								
				APPROVED BY: TB								







REMEDIATION ZONES (A-E)



**Legend**

- Sample Location
- Flow Path
- Potentiometric Contour (ft)
- Land Surface Elevation Contours (ft)
- Result below the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 1)
- ▩ Detection above the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 20)
- ▩ Detection above the LBCL (DAF 20)
- ⬢ Remediation Zones
- ⬢ Proposed Institutional/Engineering Control Area

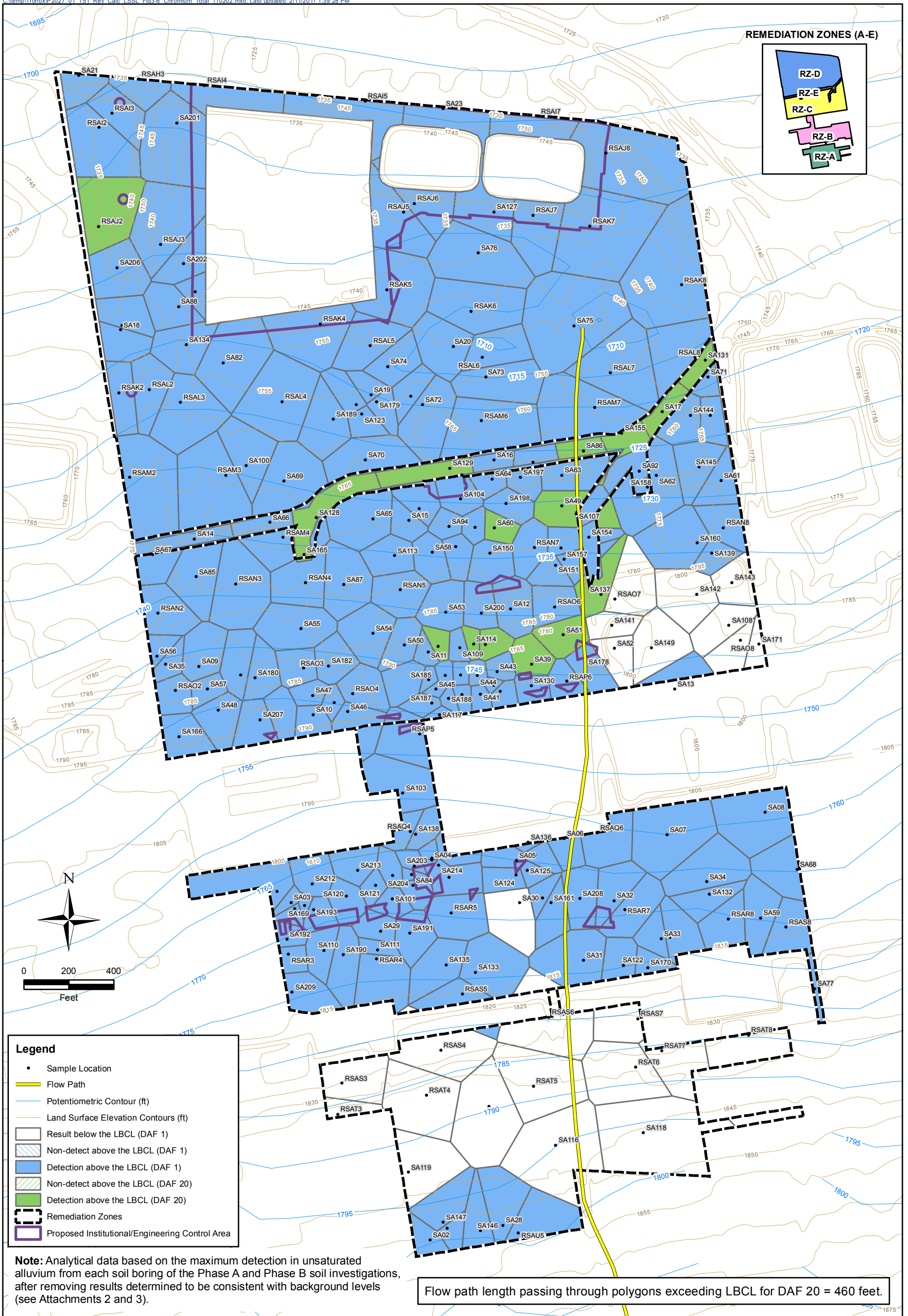
**Note:** Analytical data based on the maximum detection in unsaturated alluvium from each soil boring of the Phase A and Phase B soil investigations, after removing results determined to be consistent with background levels (see Attachments 2 and 3).

Flow path length passing through polygons exceeding LBCL for DAF 20 = 430 feet.

SHEET NUMBER: 1	FIGURE NUMBER: 3-5	<b>Boron in Soil</b>			DESIGNED BY:		REVISIONS		
		Revised Technical Memorandum: Calculation of LSSLs Tronox LLC Henderson, Nevada			NGEM	NO.:	DESCRIPTION:	DATE:	BY:
		SCALE:	DATE:	PROJECT NUMBER:					
		1 in = 400 ft	2/4/2011	2027.01 T51					
				CHECKED BY:					
				SM					
				APPROVED BY:					
				TB					







SHEET NUMBER:  
1

FIGURE NUMBER:  
3-6

**Total Chromium in Soil**  
 Revised Technical Memorandum: Calculation of LSSLs  
 Tronox LLC  
 Henderson, Nevada

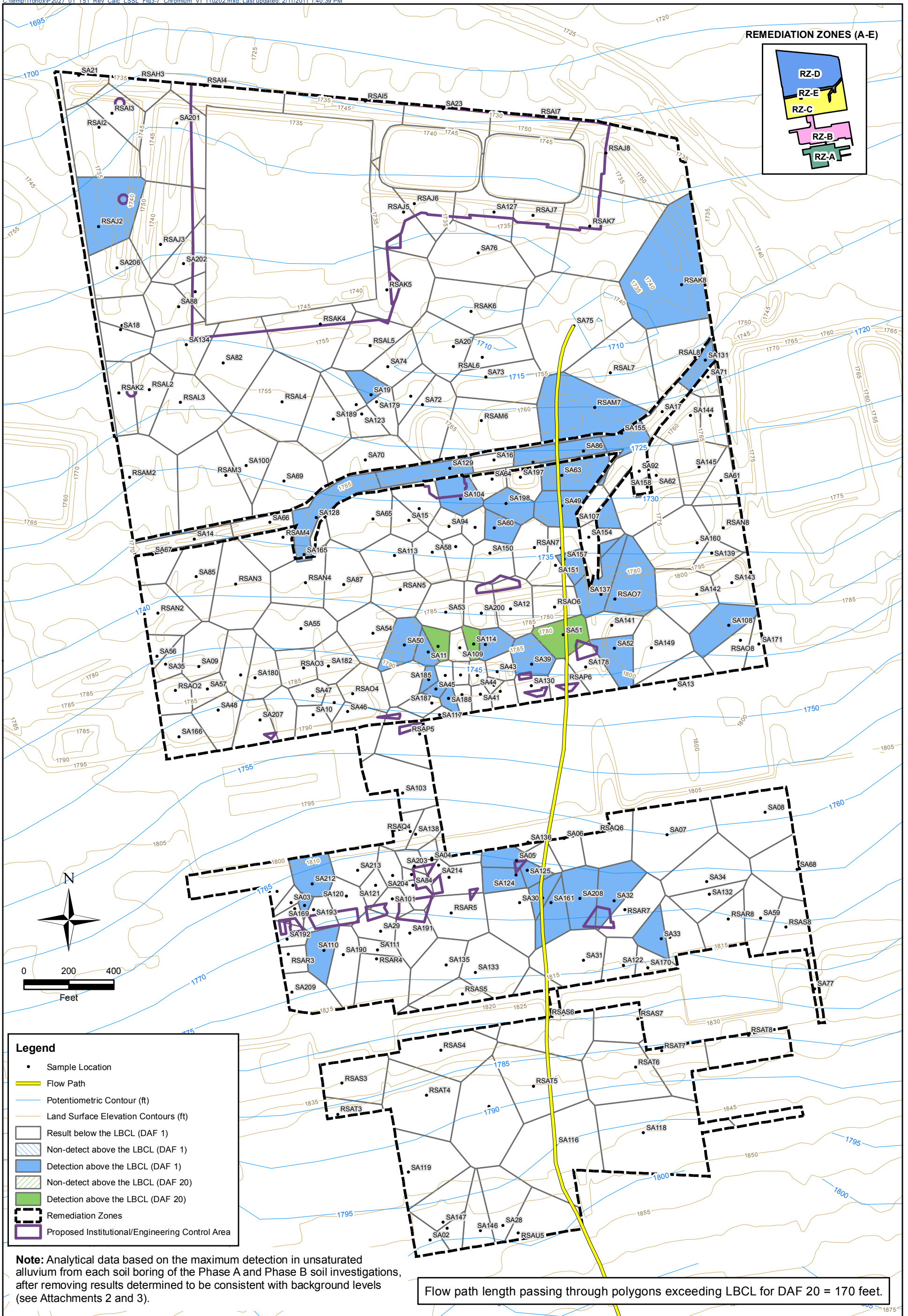
SCALE: 1 in = 400 ft  
 DATE: 2/4/2011  
 PROJECT NUMBER: 2027.01 T51

DESIGNED BY:		REVISIONS		
NGEM	NO.:	DESCRIPTION:	DATE:	BY:
DRAWN BY:				
MW				
CHECKED BY:				
SM				
APPROVED BY:				
TB				

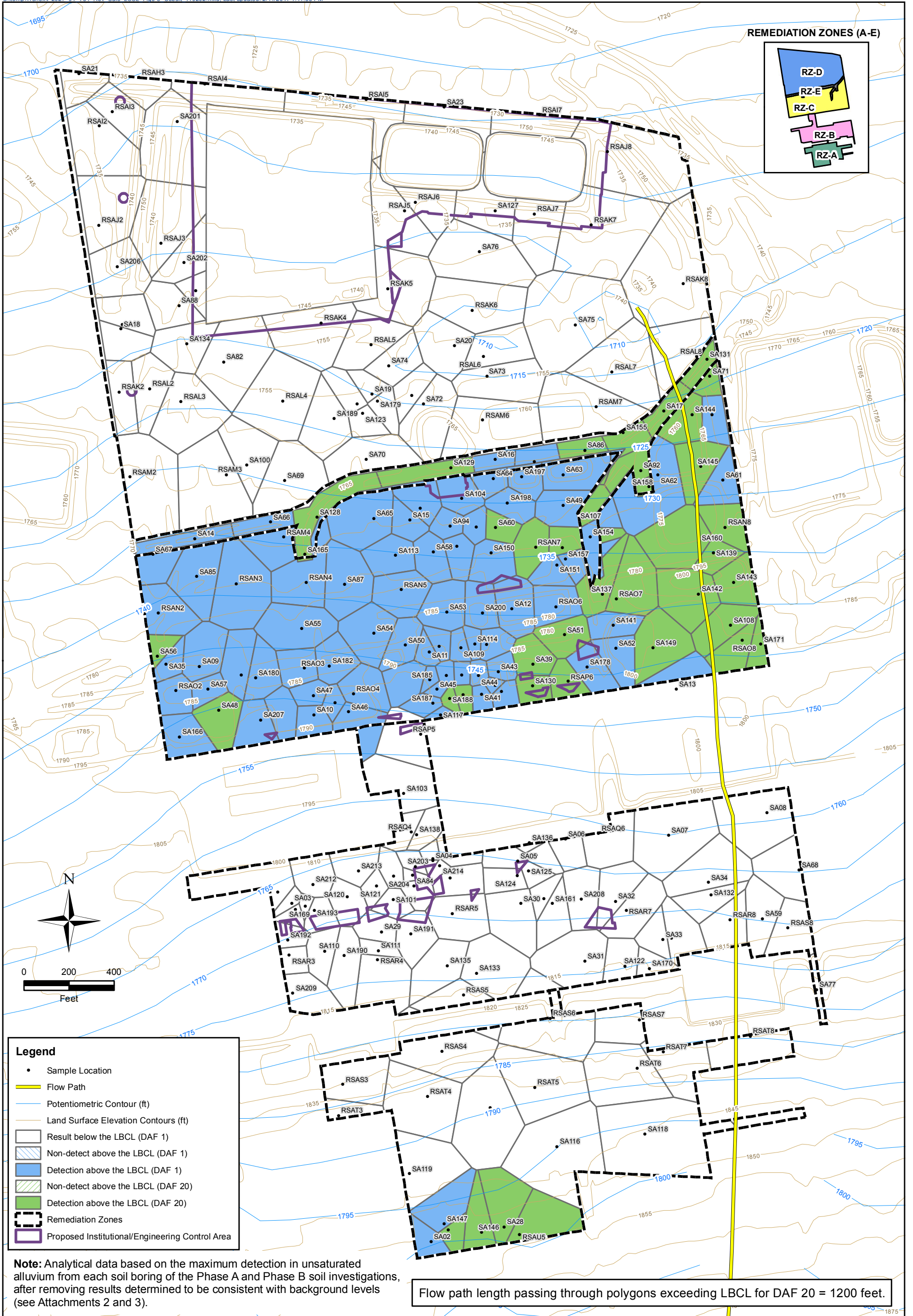
**northgate**  
 environmental management, inc.

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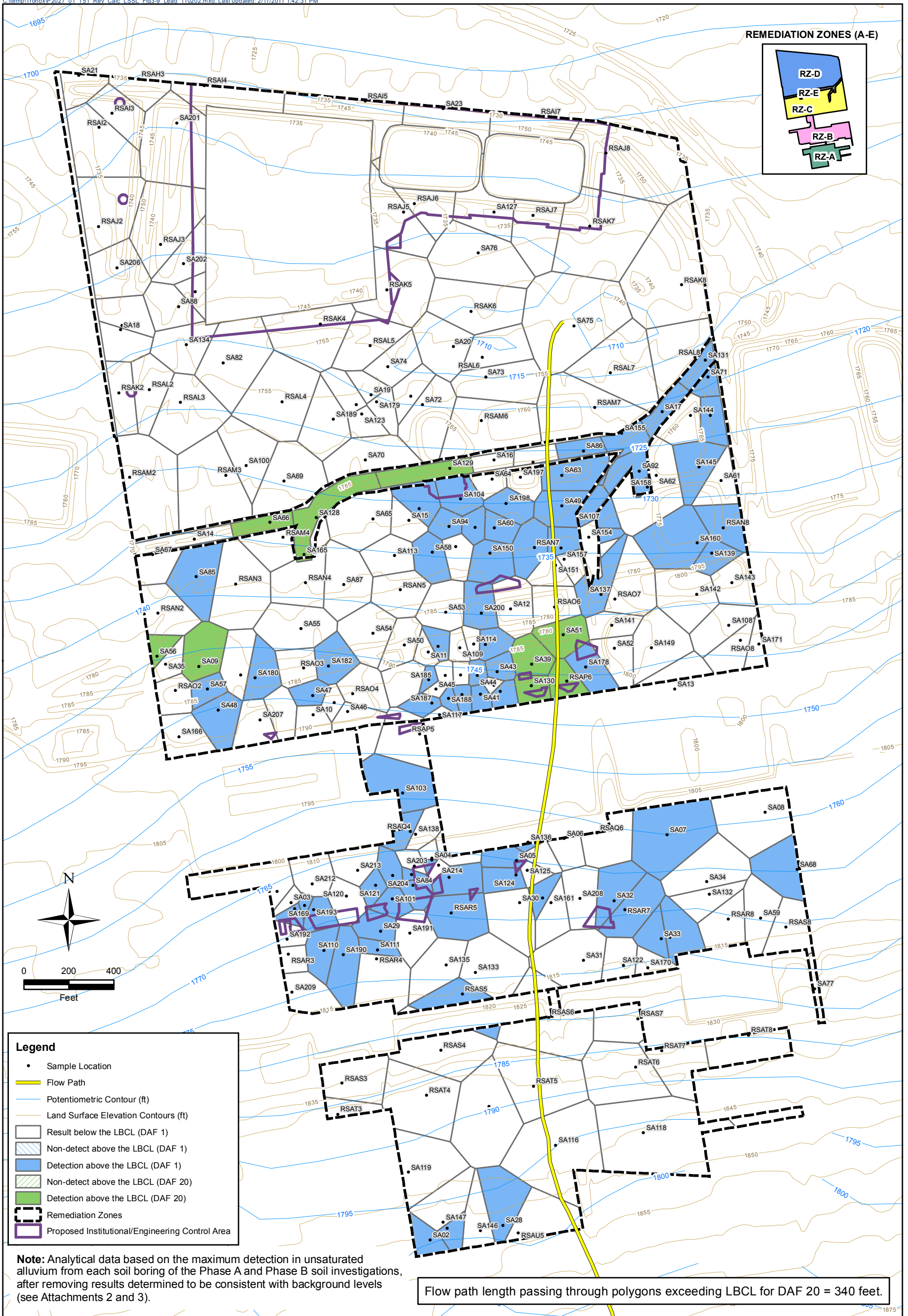




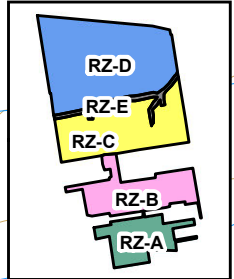








REMEDIATION ZONES (A-E)



Legend

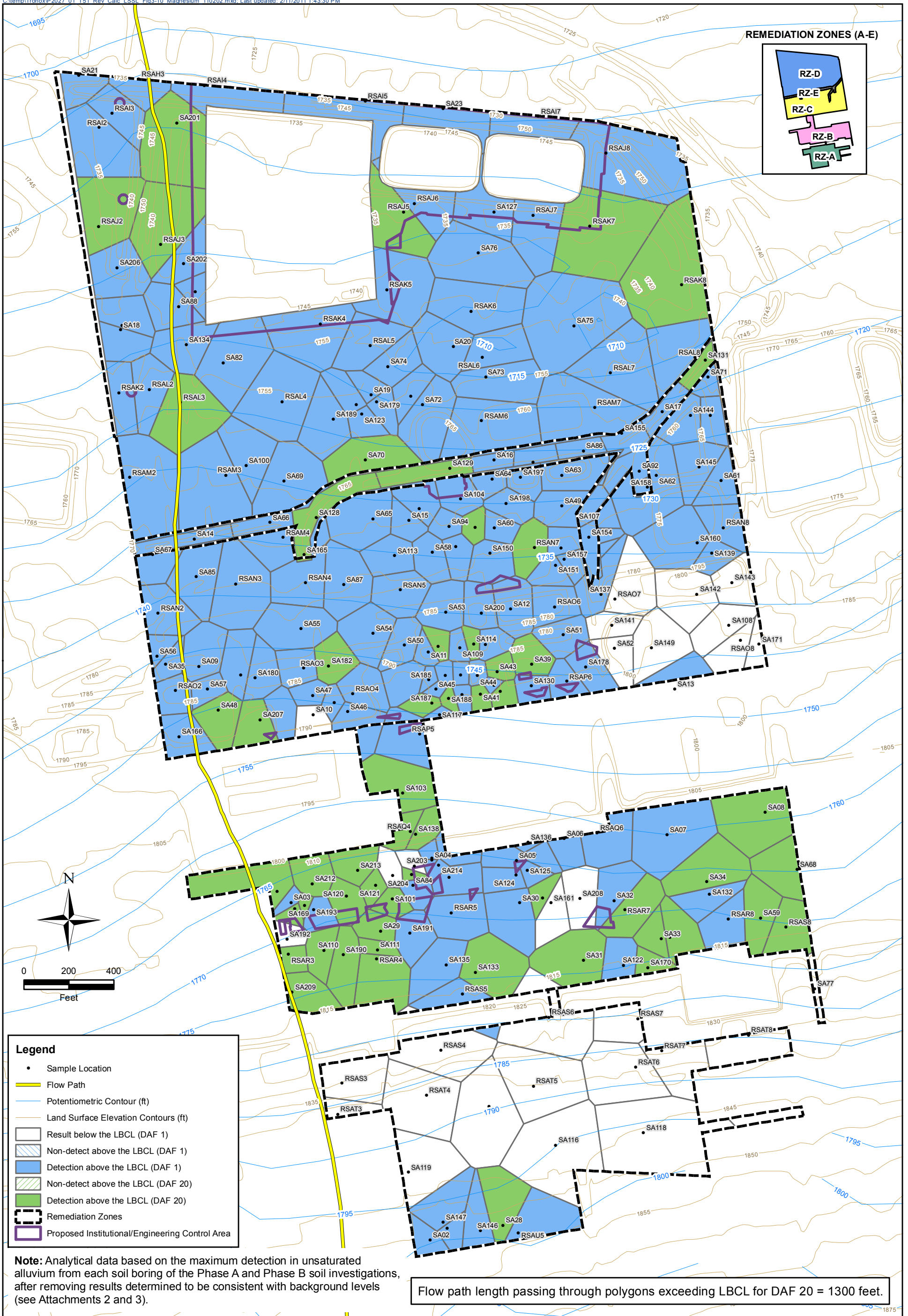
- Sample Location
- Flow Path
- Potentiometric Contour (ft)
- Land Surface Elevation Contours (ft)
- Result below the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 1)
- Detection above the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 20)
- Detection above the LBCL (DAF 20)
- ⬢ Remediation Zones
- ⬢ Proposed Institutional/Engineering Control Area

**Note:** Analytical data based on the maximum detection in unsaturated alluvium from each soil boring of the Phase A and Phase B soil investigations, after removing results determined to be consistent with background levels (see Attachments 2 and 3).

Flow path length passing through polygons exceeding LBCL for DAF 20 = 340 feet.

SHEET NUMBER: 1	FIGURE NUMBER: 3-9	<b>Lead in Soil</b>			DESIGNED BY:		REVISIONS	
		Revised Technical Memorandum: Calculation of LSSLs Tronox LLC Henderson, Nevada			NGEM	NO.:	DESCRIPTION:	DATE:
		SCALE:	DATE:	PROJECT NUMBER:				
		1 in = 400 ft	2/4/2011	2027.01 T51				
				CHECKED BY:				
				SM				
				APPROVED BY:				
				TB				
					environmental management, inc.			
					ngem.com			





**Legend**

- Sample Location
- Flow Path
- Potentiometric Contour (ft)
- Land Surface Elevation Contours (ft)
- Result below the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 1)
- ▩ Detection above the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 20)
- ▩ Detection above the LBCL (DAF 20)
- ▭ Remediation Zones
- ▭ Proposed Institutional/Engineering Control Area

**Note:** Analytical data based on the maximum detection in unsaturated alluvium from each soil boring of the Phase A and Phase B soil investigations, after removing results determined to be consistent with background levels (see Attachments 2 and 3).

Flow path length passing through polygons exceeding LBCL for DAF 20 = 1300 feet.

SHEET NUMBER:  
1

FIGURE NUMBER:  
3-10

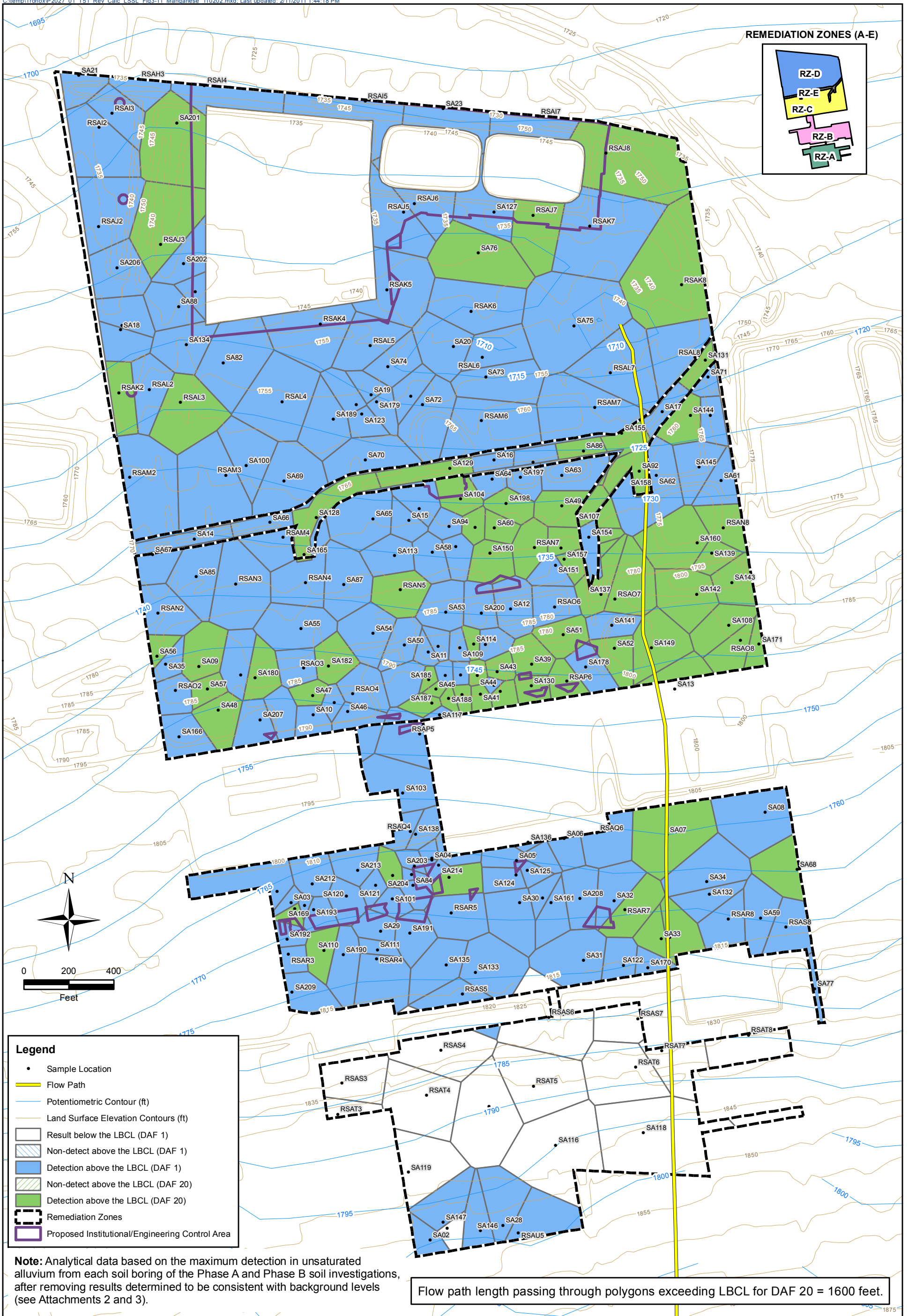
<b>Magnesium in Soil</b>		
Revised Technical Memorandum: Calculation of LSSLS		
Tronox LLC		
Henderson, Nevada		
SCALE: 1 in = 400 ft	DATE: 2/4/2011	PROJECT NUMBER: 2027.01 T51

DESIGNED BY:		REVISIONS	
NGEM	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
MW			
CHECKED BY:			
SM			
APPROVED BY:			
TB			

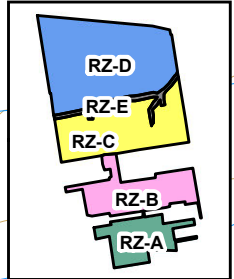
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REMEDIATION ZONES (A-E)



**Legend**

- Sample Location
- Flow Path
- Potentiometric Contour (ft)
- Land Surface Elevation Contours (ft)
- Result below the LBCL (DAF 1)
- Non-detect above the LBCL (DAF 1)
- Detection above the LBCL (DAF 1)
- Non-detect above the LBCL (DAF 20)
- Detection above the LBCL (DAF 20)
- Remediation Zones
- Proposed Institutional/Engineering Control Area

**Note:** Analytical data based on the maximum detection in unsaturated alluvium from each soil boring of the Phase A and Phase B soil investigations, after removing results determined to be consistent with background levels (see Attachments 2 and 3).

Flow path length passing through polygons exceeding LBCL for DAF 20 = 1600 feet.

SHEET NUMBER:  
1

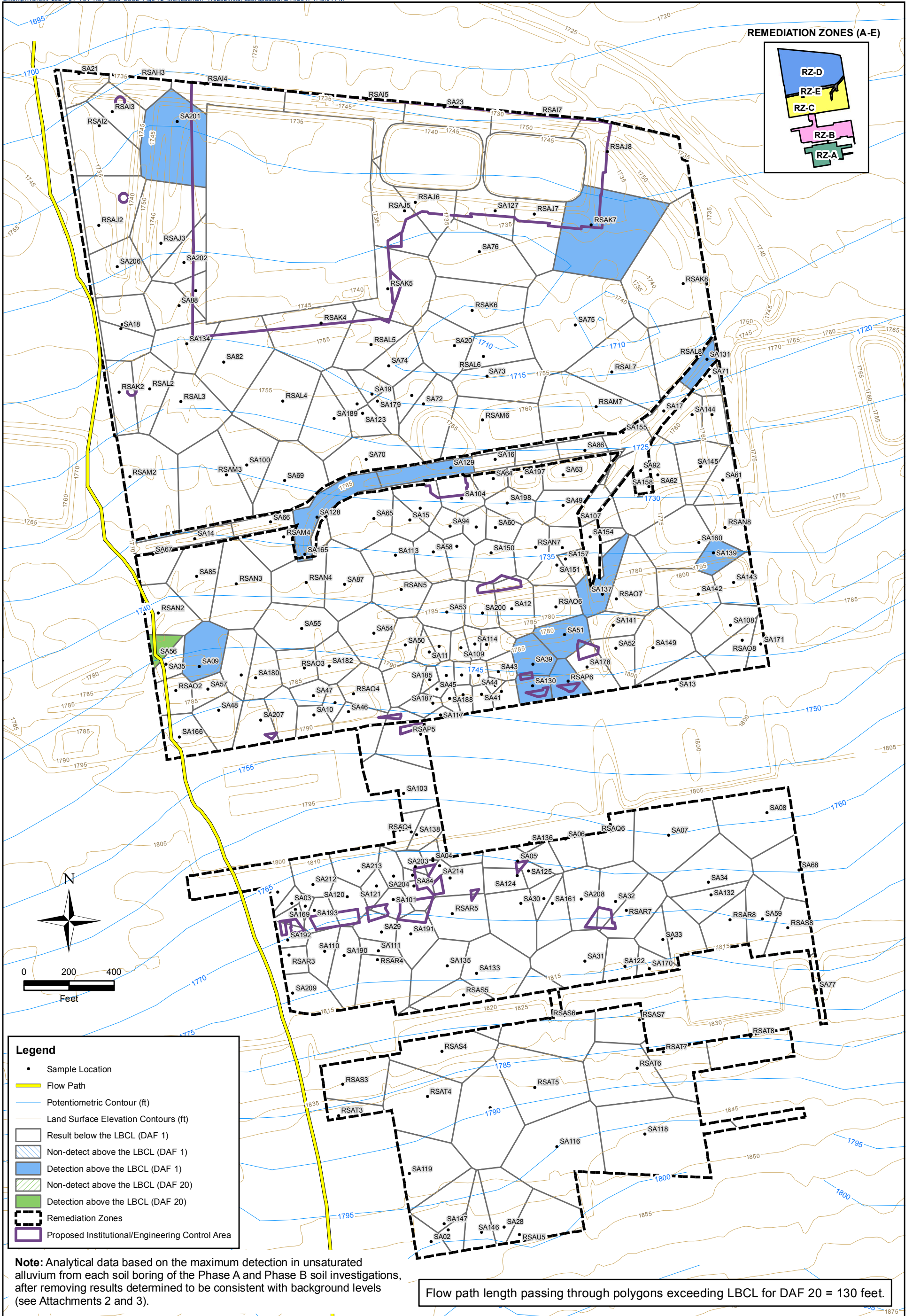
FIGURE NUMBER:  
3-11

<b>Manganese in Soil</b>		
Revised Technical Memorandum: Calculation of LSSLs		
Tronox LLC		
Henderson, Nevada		
SCALE: 1 in = 400 ft	DATE: 2/4/2011	PROJECT NUMBER: 2027.01 T51

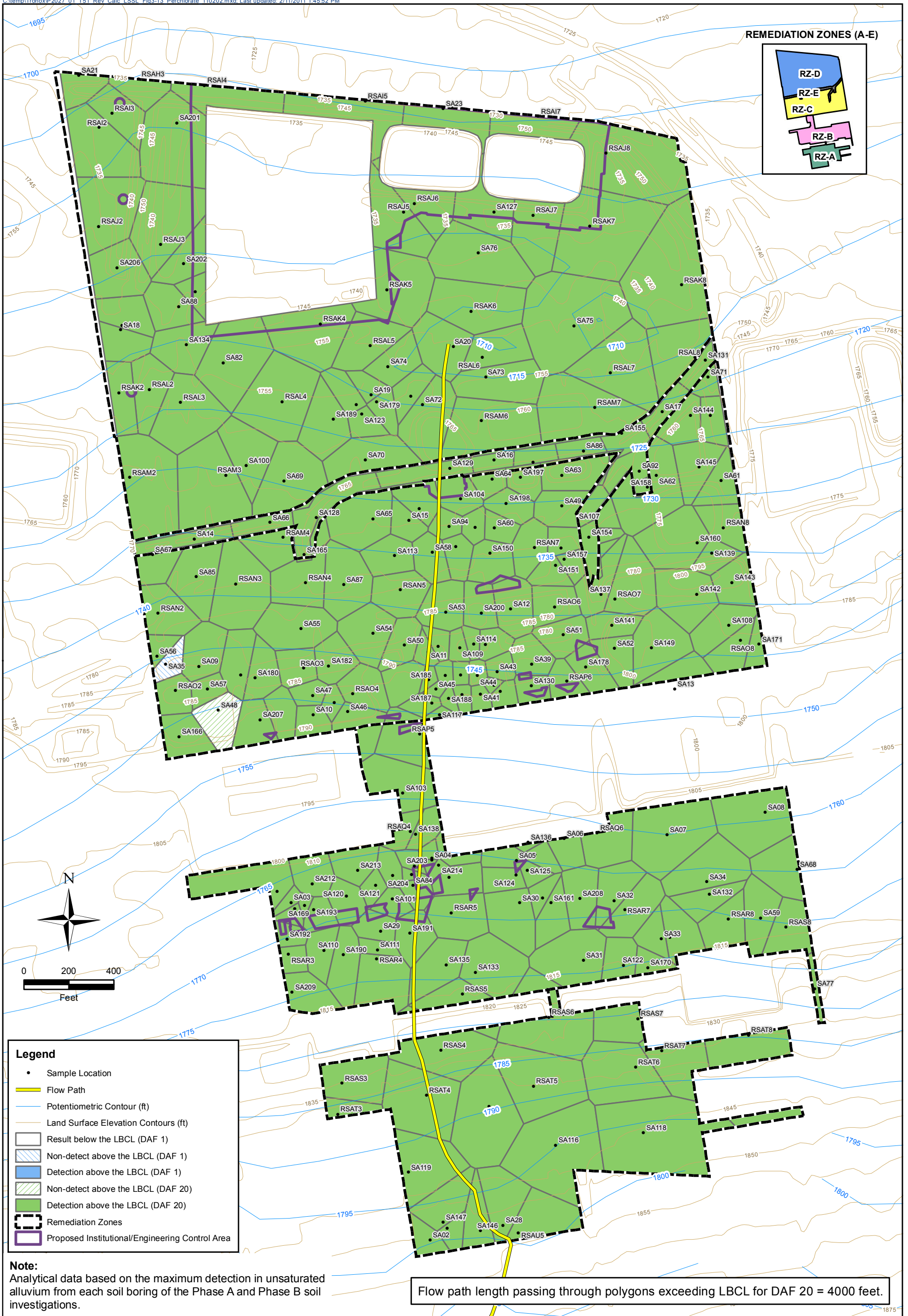
DESIGNED BY:		REVISIONS	
NGEM	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
MW			
CHECKED BY:			
SM			
APPROVED BY:			
TB			

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SHEET NUMBER:  
1

FIGURE NUMBER:  
3-13

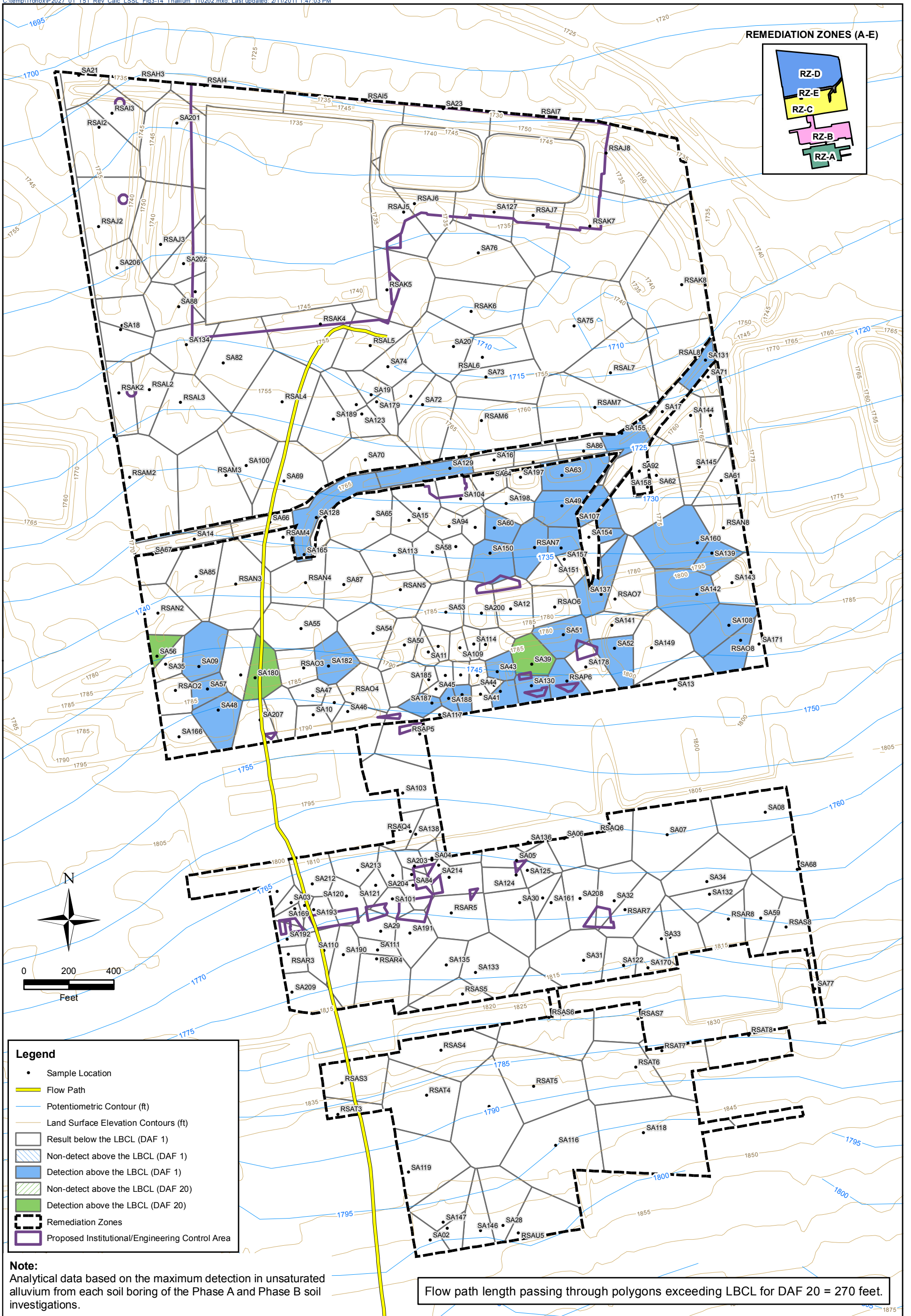
Perchlorate in Soil		
Revised Technical Memorandum: Calculation of LSSLs		
Tronox LLC		
Henderson, Nevada		
SCALE: 1 in = 400 ft	DATE: 2/4/2011	PROJECT NUMBER: 2027.01 T51

DESIGNED BY:		REVISIONS	
NGEM	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
MW			
CHECKED BY:			
SM			
APPROVED BY:			
TB			

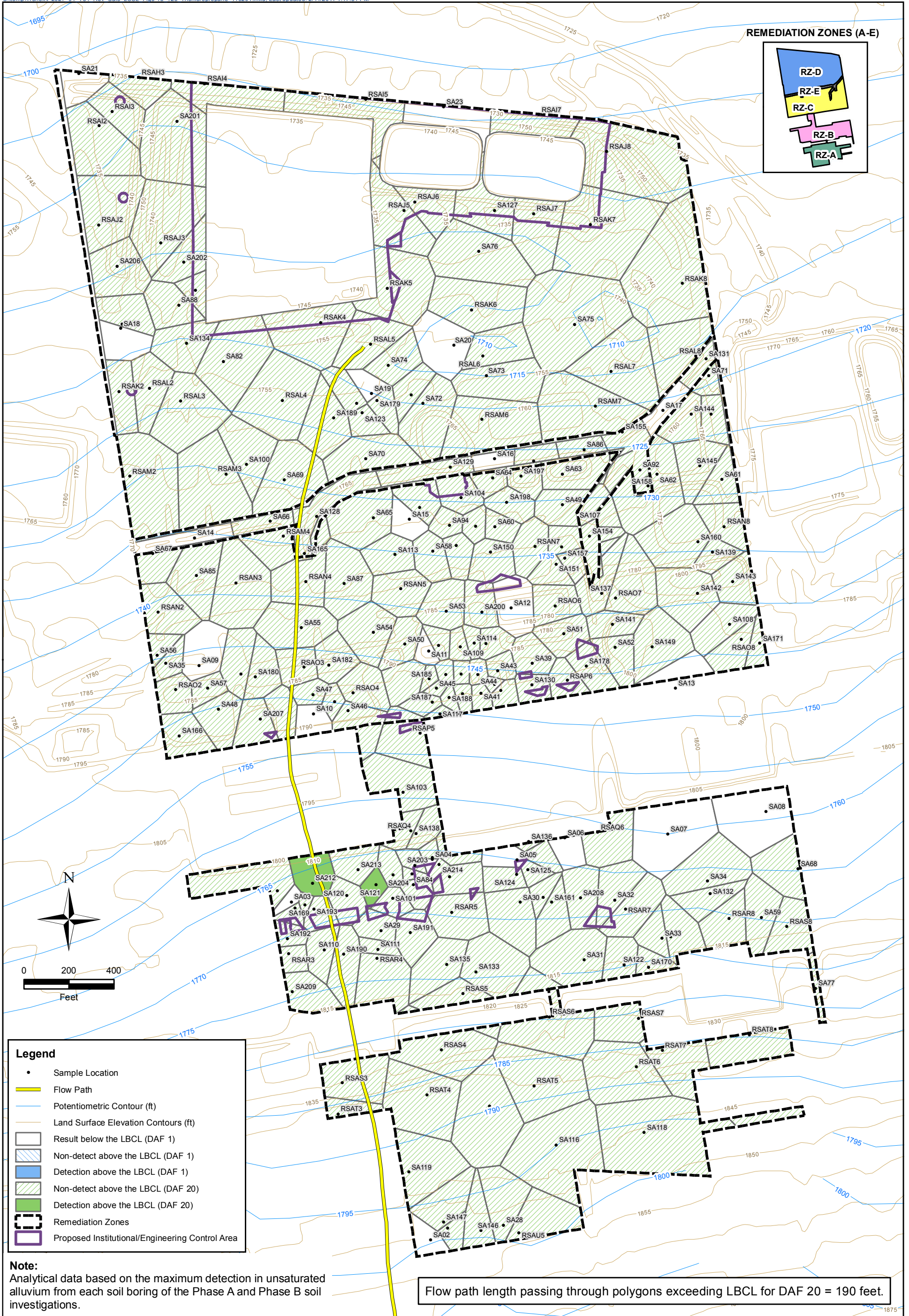
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SHEET NUMBER:  
1

FIGURE NUMBER:  
3-15

**1,2,3-Trichloropropane in Soil**  
 Revised Technical Memorandum: Calculation of LSSLS  
 Tronox LLC  
 Henderson, Nevada

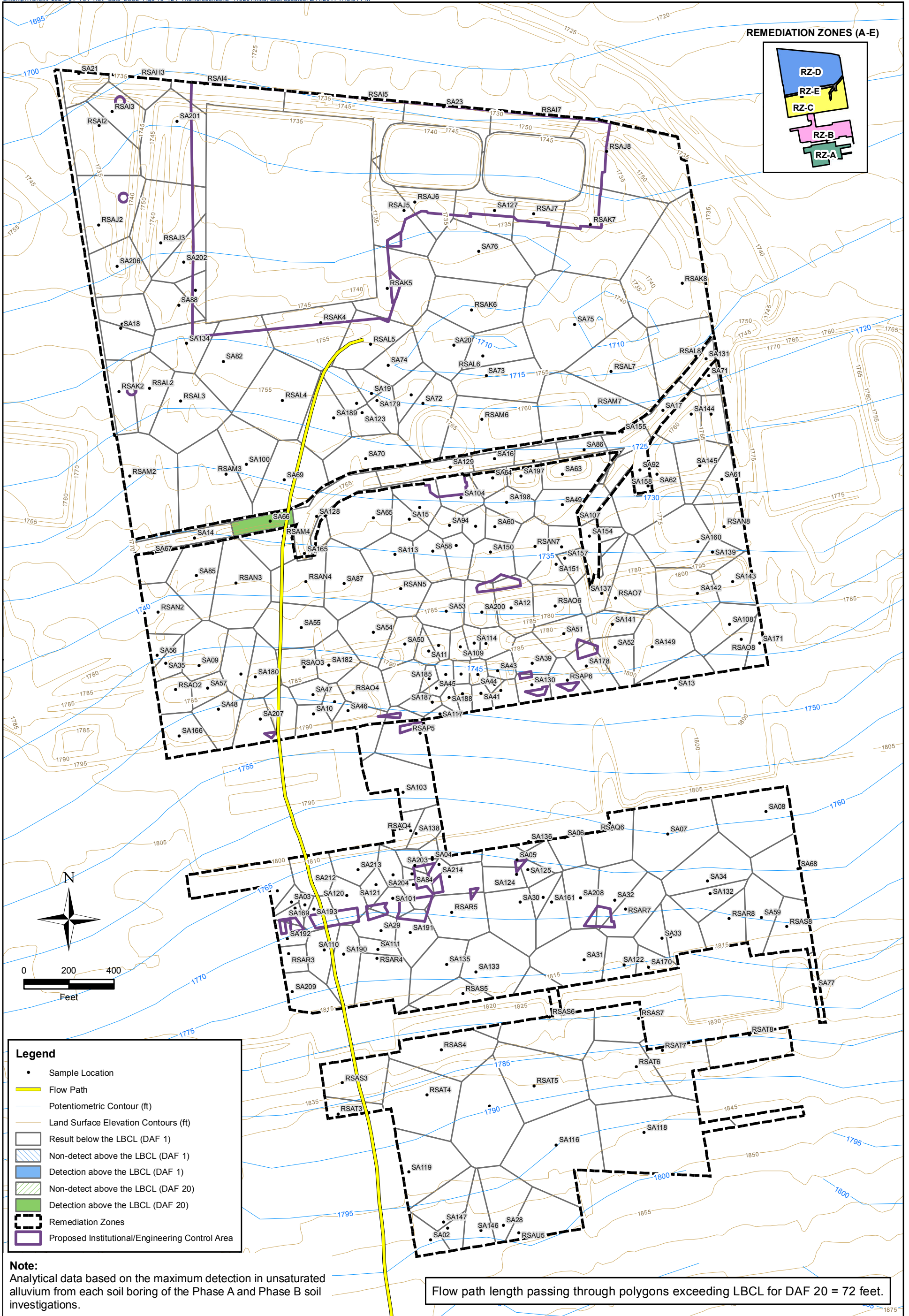
SCALE: 1 in = 400 ft  
 DATE: 2/1/2011  
 PROJECT NUMBER: 2027.01 T51

DESIGNED BY:		REVISIONS	
NGEM	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
MW			
CHECKED BY:			
SM			
APPROVED BY:			
TB			

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SHEET NUMBER:  
1

FIGURE NUMBER:  
**3-16**

**1,2,4-Trichlorobenzene in Soil**  
 Revised Technical Memorandum: Calculation of LSSLS  
 Tronox LLC  
 Henderson, Nevada

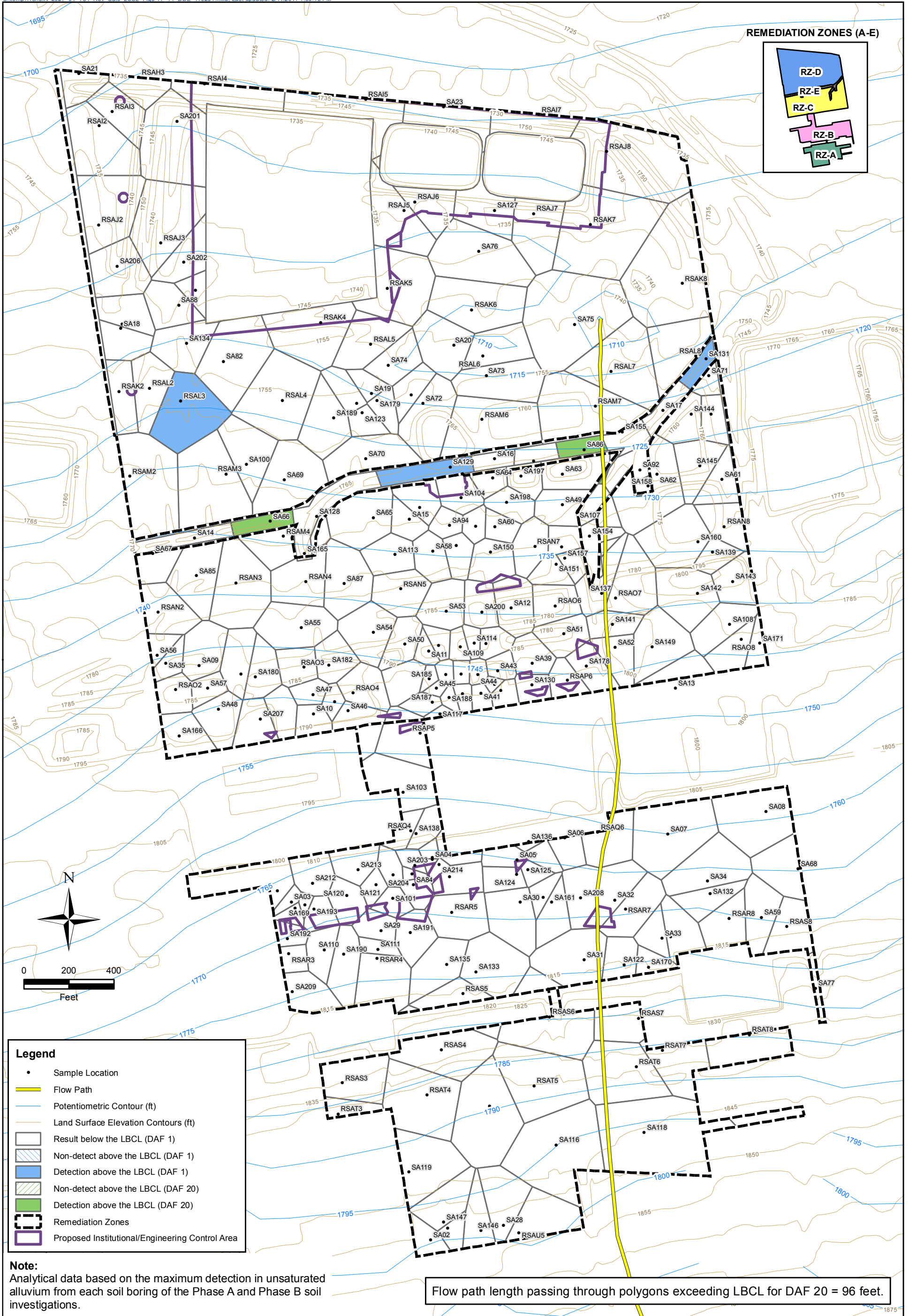
SCALE: 1 in = 400 ft  
 DATE: 2/1/2011  
 PROJECT NUMBER: 2027.01 T51

DESIGNED BY:		REVISIONS	
NGEM	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
MW			
CHECKED BY:			
SM			
APPROVED BY:			
TB			

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SHEET NUMBER:  
1

FIGURE NUMBER:  
3-17

**4,4-DDE in Soil**  
Revised Technical Memorandum: Calculation of LSSLs  
Tronox LLC  
Henderson, Nevada

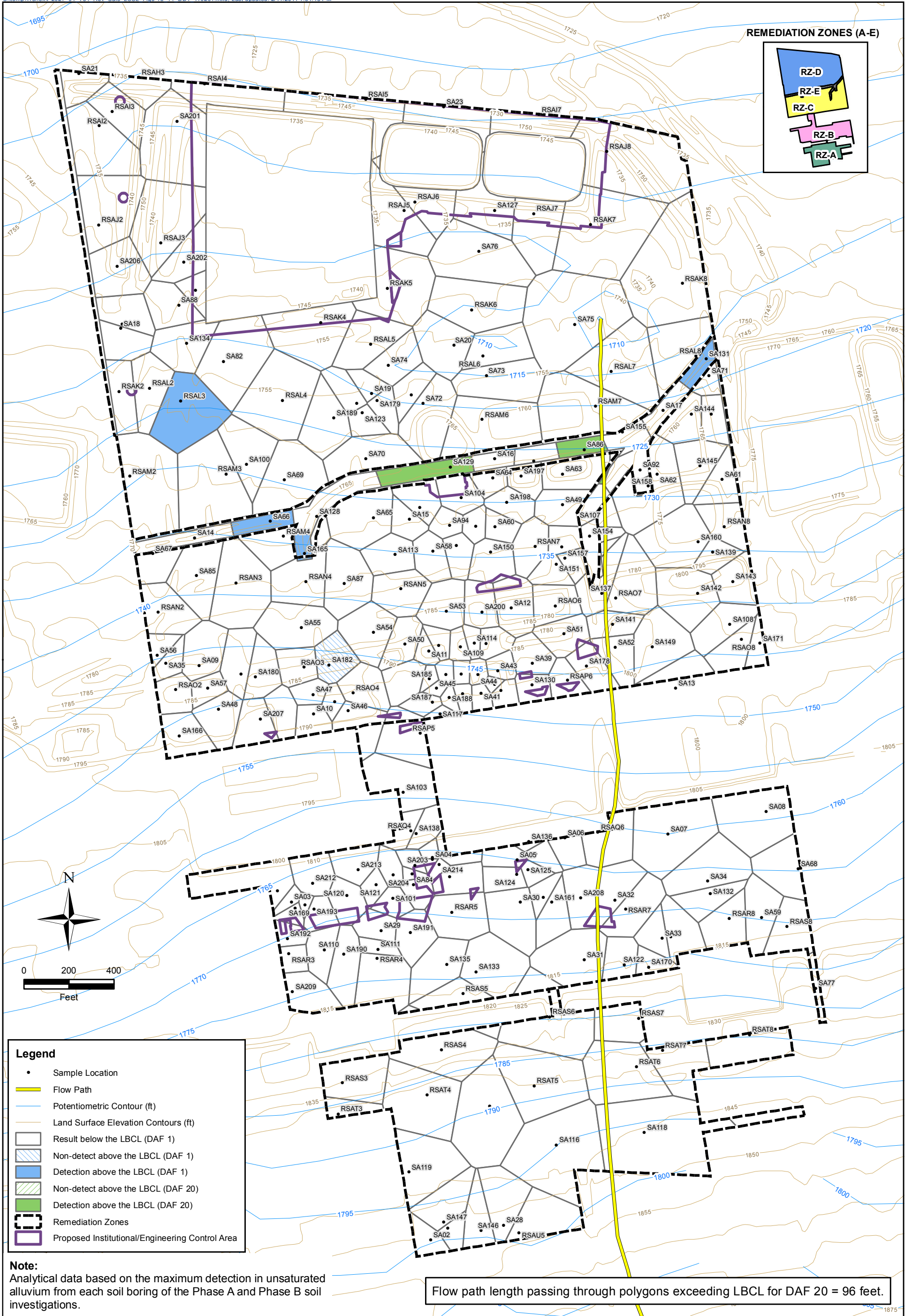
SCALE: 1 in = 400 ft  
DATE: 2/1/2011  
PROJECT NUMBER: 2027.01 T51

DESIGNED BY:		REVISIONS	
NGEM	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
MW			
CHECKED BY:			
SM			
APPROVED BY:			
TB			

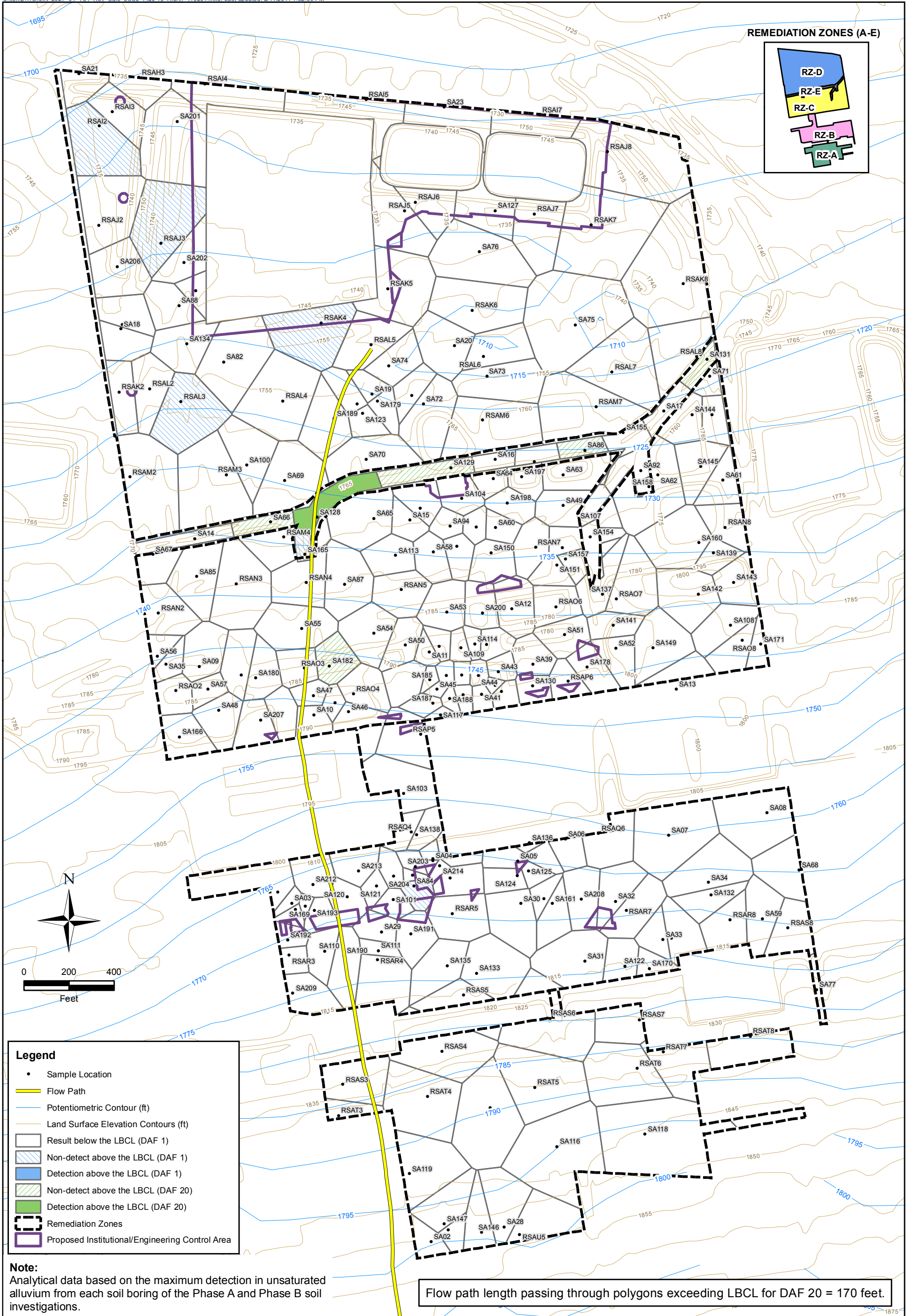
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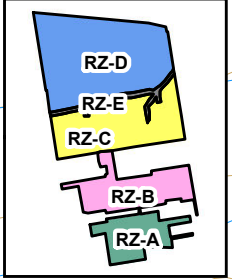








REMEDIATION ZONES (A-E)



Legend

- Sample Location
- Flow Path
- Potentiometric Contour (ft)
- Land Surface Elevation Contours (ft)
- Result below the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 1)
- ▩ Detection above the LBCL (DAF 1)
- ▨ Non-detect above the LBCL (DAF 20)
- ▩ Detection above the LBCL (DAF 20)
- ⬡ Remediation Zones
- ⬡ Proposed Institutional/Engineering Control Area

Note:

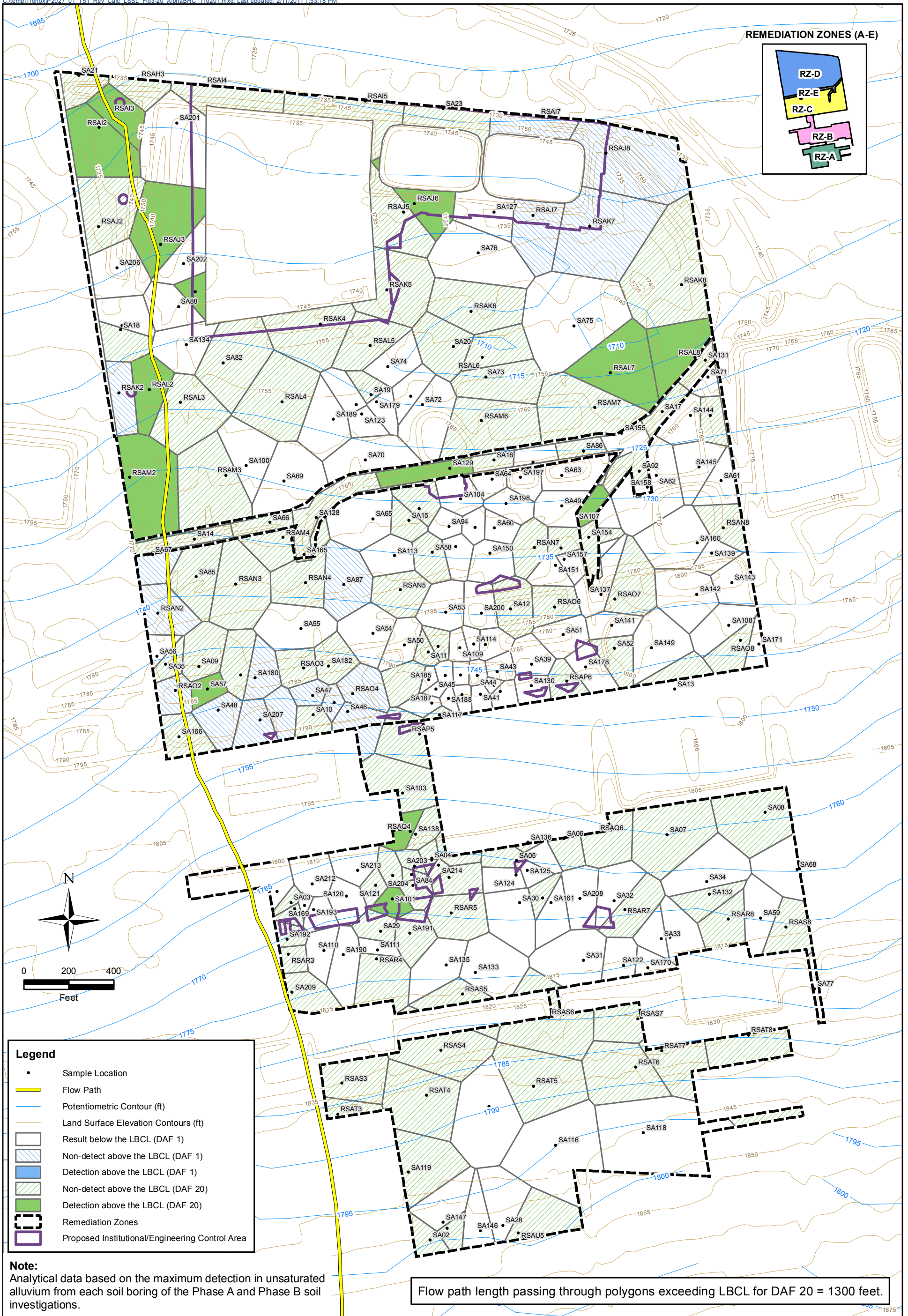
Analytical data based on the maximum detection in unsaturated alluvium from each soil boring of the Phase A and Phase B soil investigations.

Flow path length passing through polygons exceeding LBCL for DAF 20 = 170 feet.

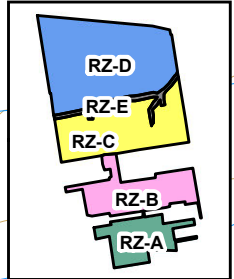
SHEET NUMBER: 1	FIGURE NUMBER: 3-19	<b>Aldrin in Soil</b>		DESIGNED BY:		REVISIONS	
		Revised Technical Memorandum: Calculation of LSSLs Tronox LLC Henderson, Nevada		NGEM	NO.:	DESCRIPTION:	DATE:
		SCALE:	DATE:	PROJECT NUMBER:	CHECKED BY:		
		1 in = 400 ft	2/1/2011	2027.01 T51	SM		
				APPROVED BY:	TB		







REMEDIATION ZONES (A-E)



Legend

- Sample Location
- Flow Path
- Potentiometric Contour (ft)
- Land Surface Elevation Contours (ft)
- Result below the LBCL (DAF 1)
- Non-detect above the LBCL (DAF 1)
- Detection above the LBCL (DAF 1)
- Non-detect above the LBCL (DAF 20)
- Detection above the LBCL (DAF 20)
- Remediation Zones
- Proposed Institutional/Engineering Control Area

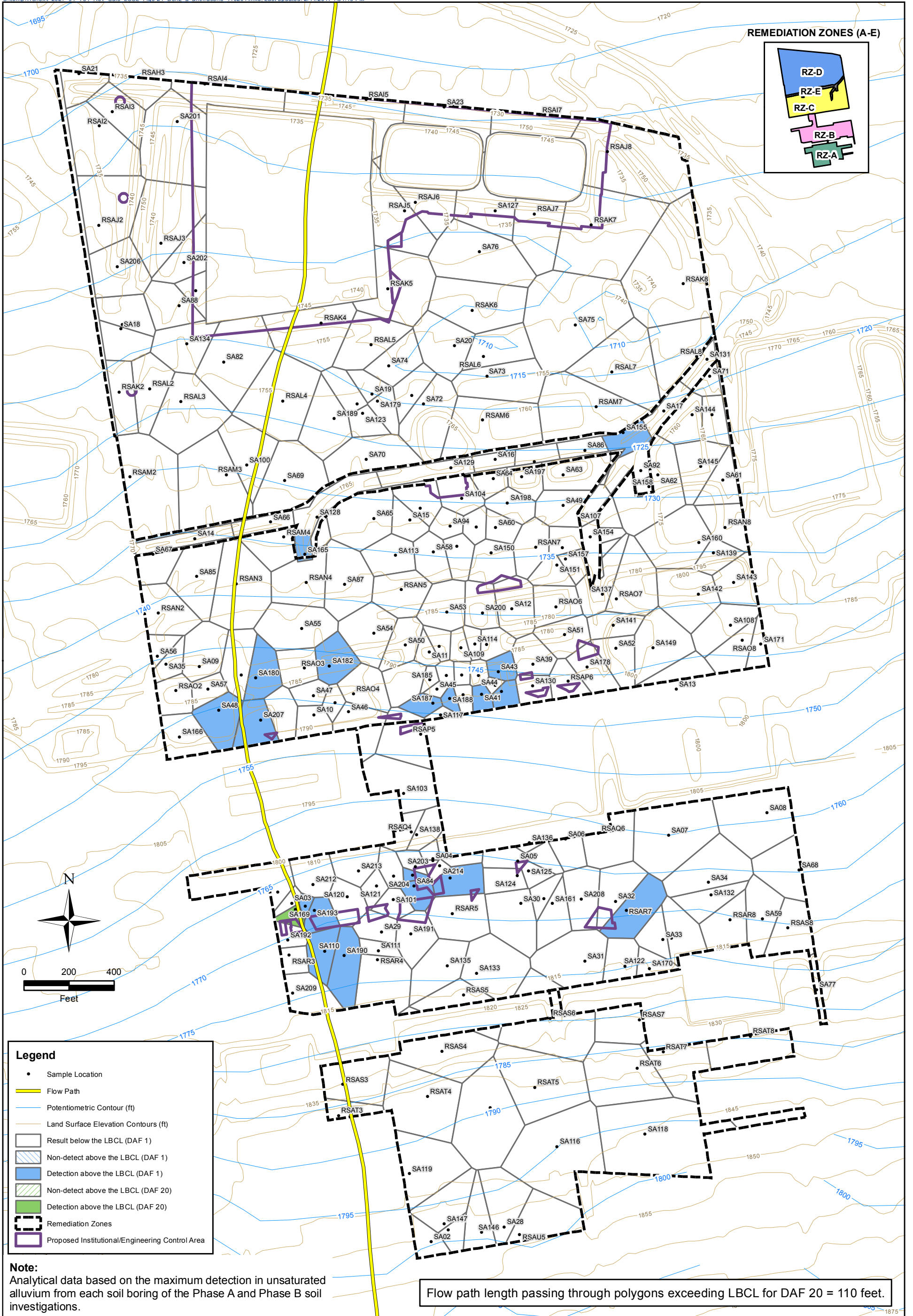
**Note:**  
Analytical data based on the maximum detection in unsaturated alluvium from each soil boring of the Phase A and Phase B soil investigations.

Flow path length passing through polygons exceeding LBCL for DAF 20 = 1300 feet.

SHEET NUMBER: 1	FIGURE NUMBER: 3-20	<b>Alpha-BHC in Soil</b>			DESIGNED BY: NGEM				
		Revised Technical Memorandum: Calculation of LSSLS Tronox LLC Henderson, Nevada			NO.: _____				
SCALE: 1 in = 400 ft			DATE: 2/2/2011			PROJECT NUMBER: 2027.01 T51			
				DRAWN BY: MW		CHECKED BY: SM		APPROVED BY: TB	
				REVISIONS		DESCRIPTION:		DATE: BY:	







SHEET NUMBER:  
1

FIGURE NUMBER:  
**3-21**

**Benz(a)anthracene in Soil**  
 Revised Technical Memorandum: Calculation of LSSLS  
 Tronox LLC  
 Henderson, Nevada

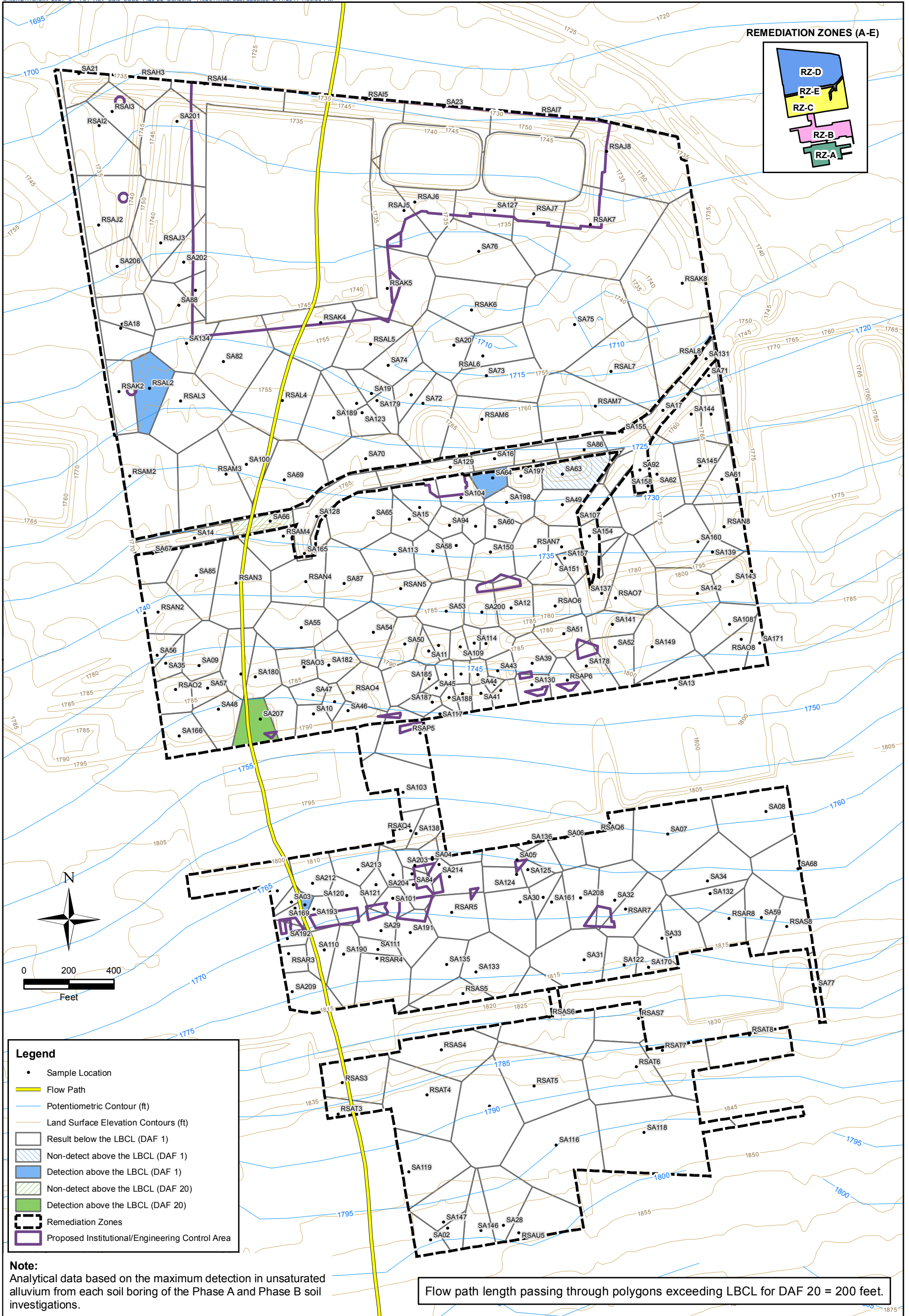
SCALE: 1 in = 400 ft	DATE: 2/1/2011	PROJECT NUMBER: 2027.01 T51
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DESIGNED BY:		REVISIONS	
NGEM	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
MW			
CHECKED BY:			
SM			
APPROVED BY:			
TB			

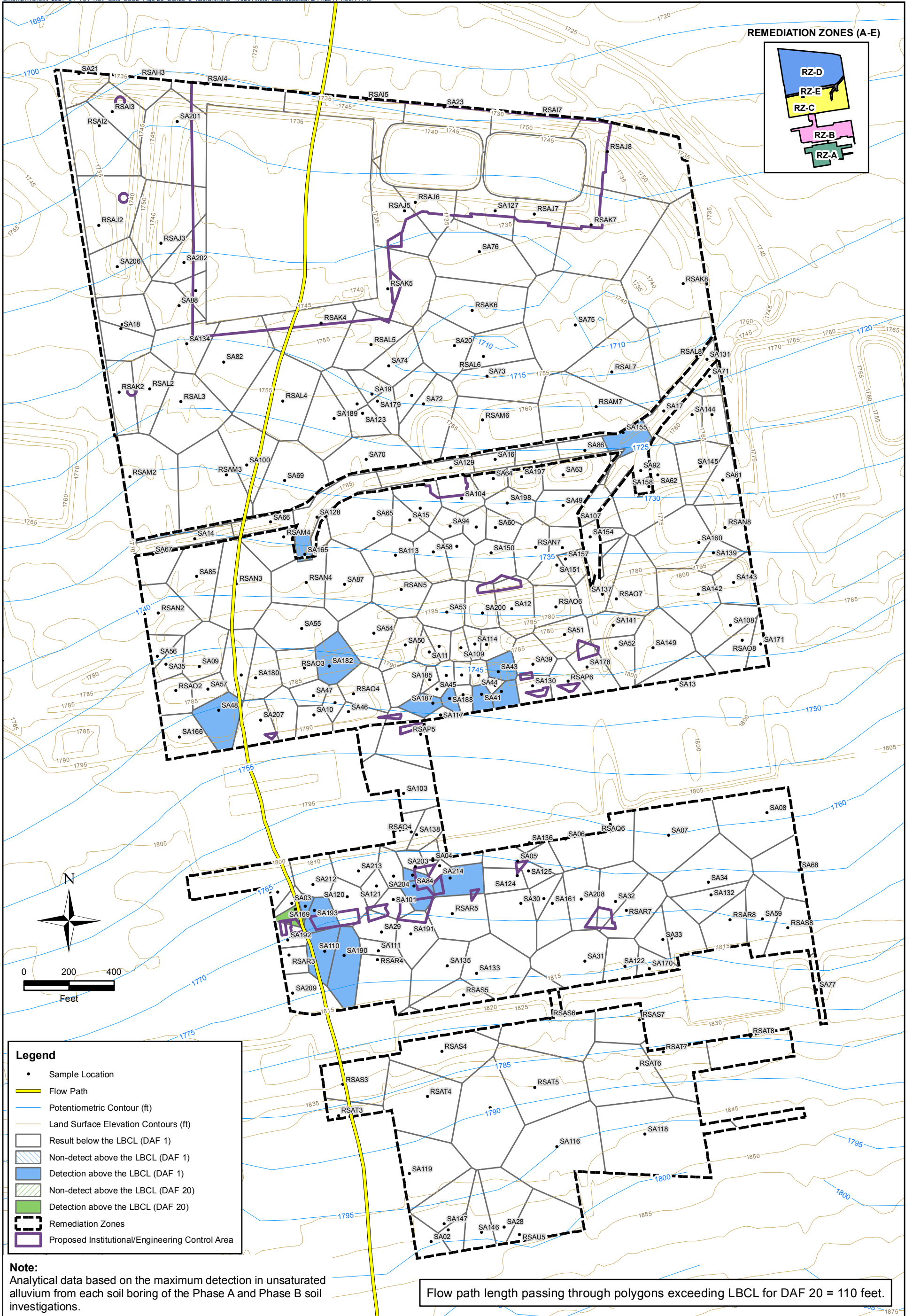
  
 environmental management, inc.  


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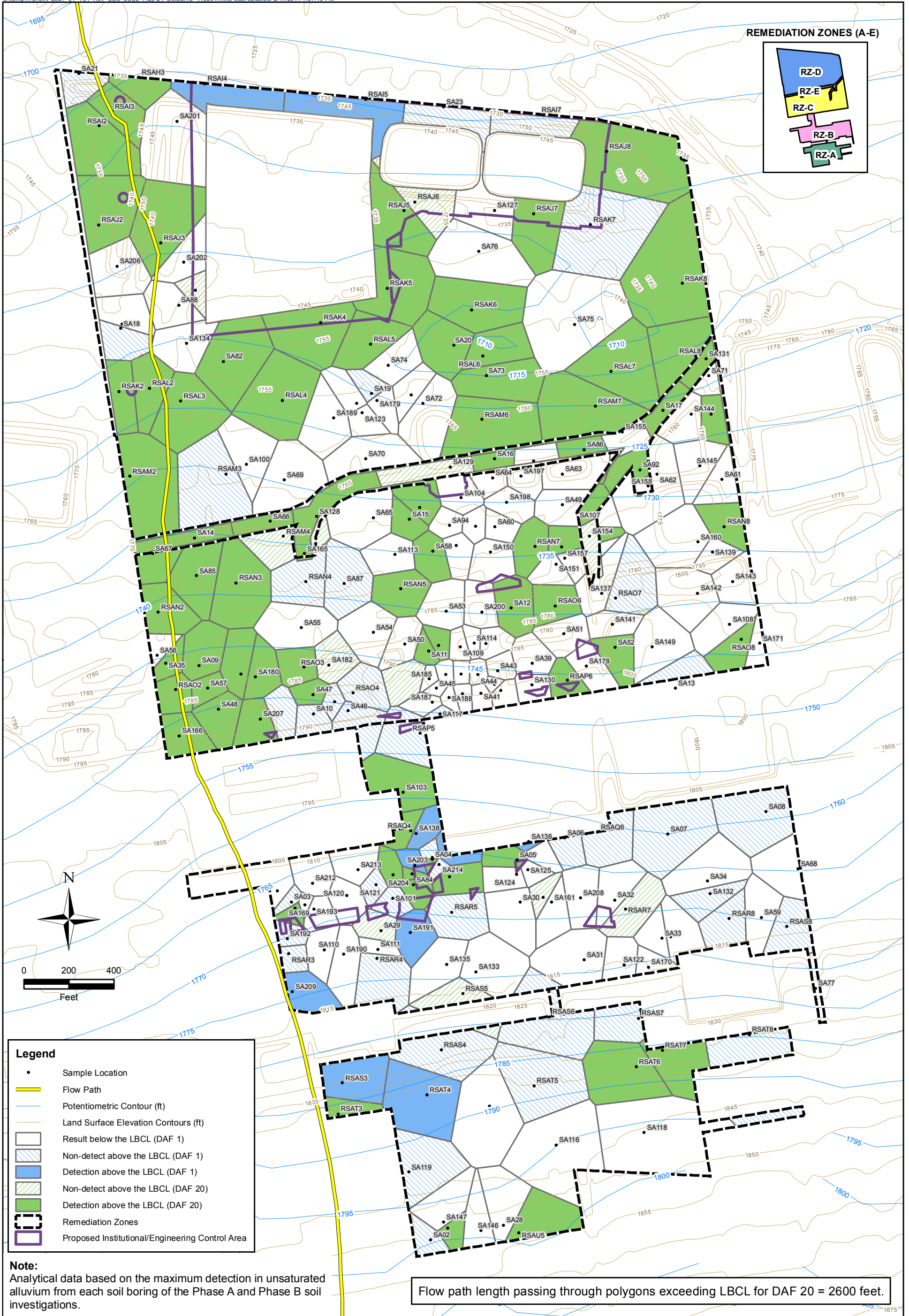




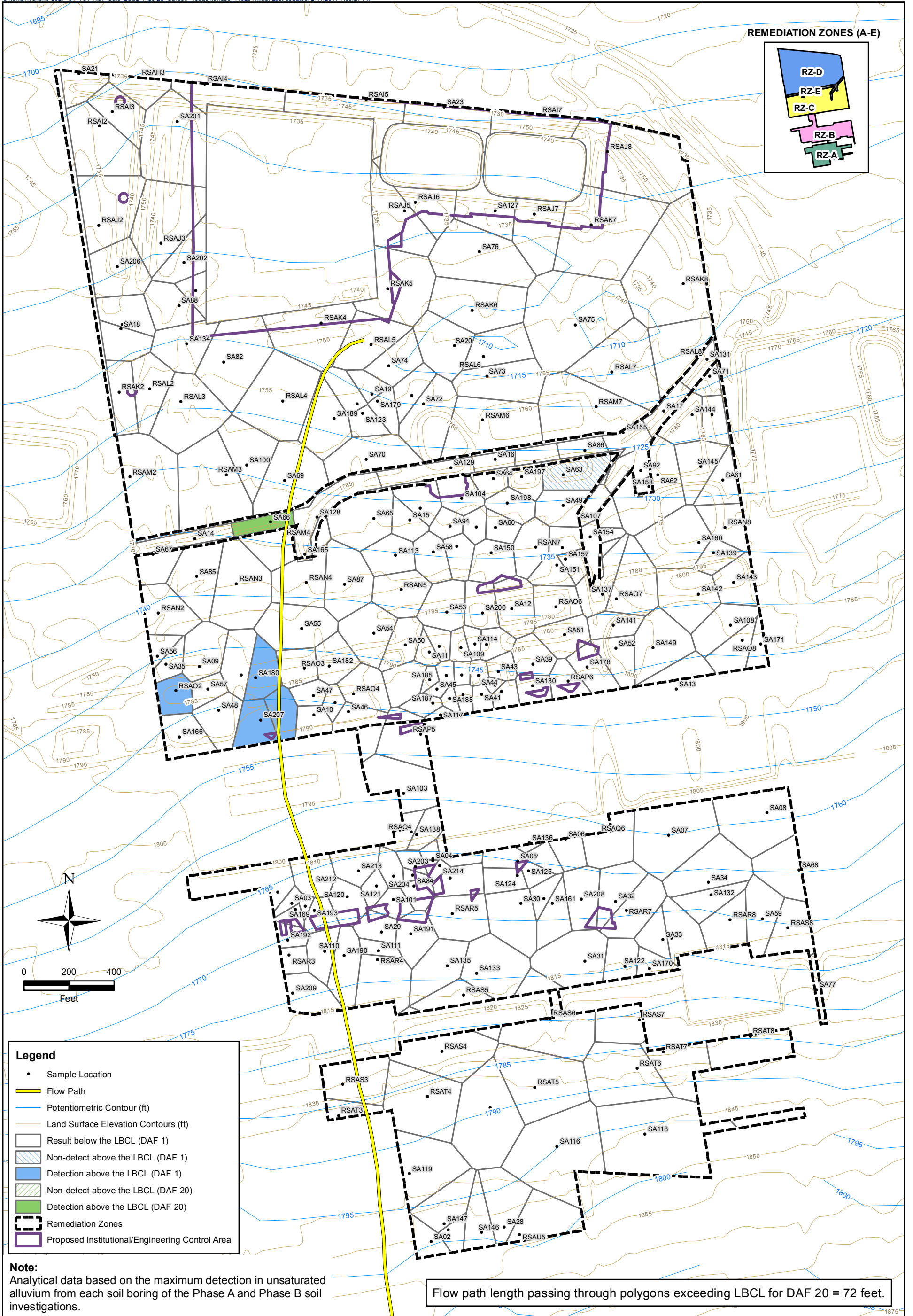












SHEET NUMBER:  
1

FIGURE NUMBER:  
3-25

**Carbon Tetrachloride in Soil**  
 Revised Technical Memorandum: Calculation of LSSLS  
 Tronox LLC  
 Henderson, Nevada

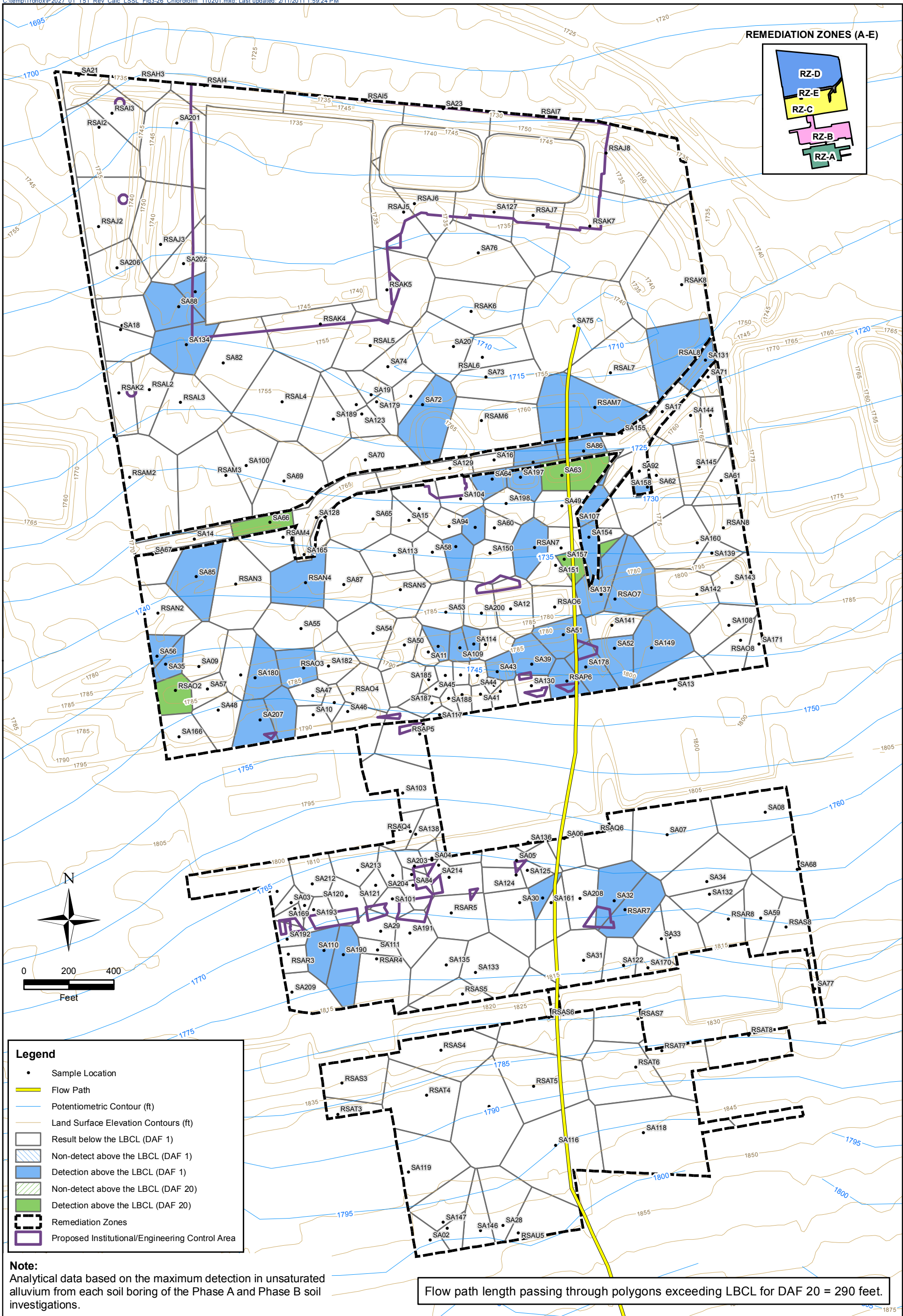
SCALE: 1 in = 400 ft  
 DATE: 2/1/2011  
 PROJECT NUMBER: 2027.01 T51

DESIGNED BY:		REVISIONS	
NGEM	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
MW			
CHECKED BY:			
SM			
APPROVED BY:			
TB			

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SHEET NUMBER:  
1

FIGURE NUMBER:  
3-26

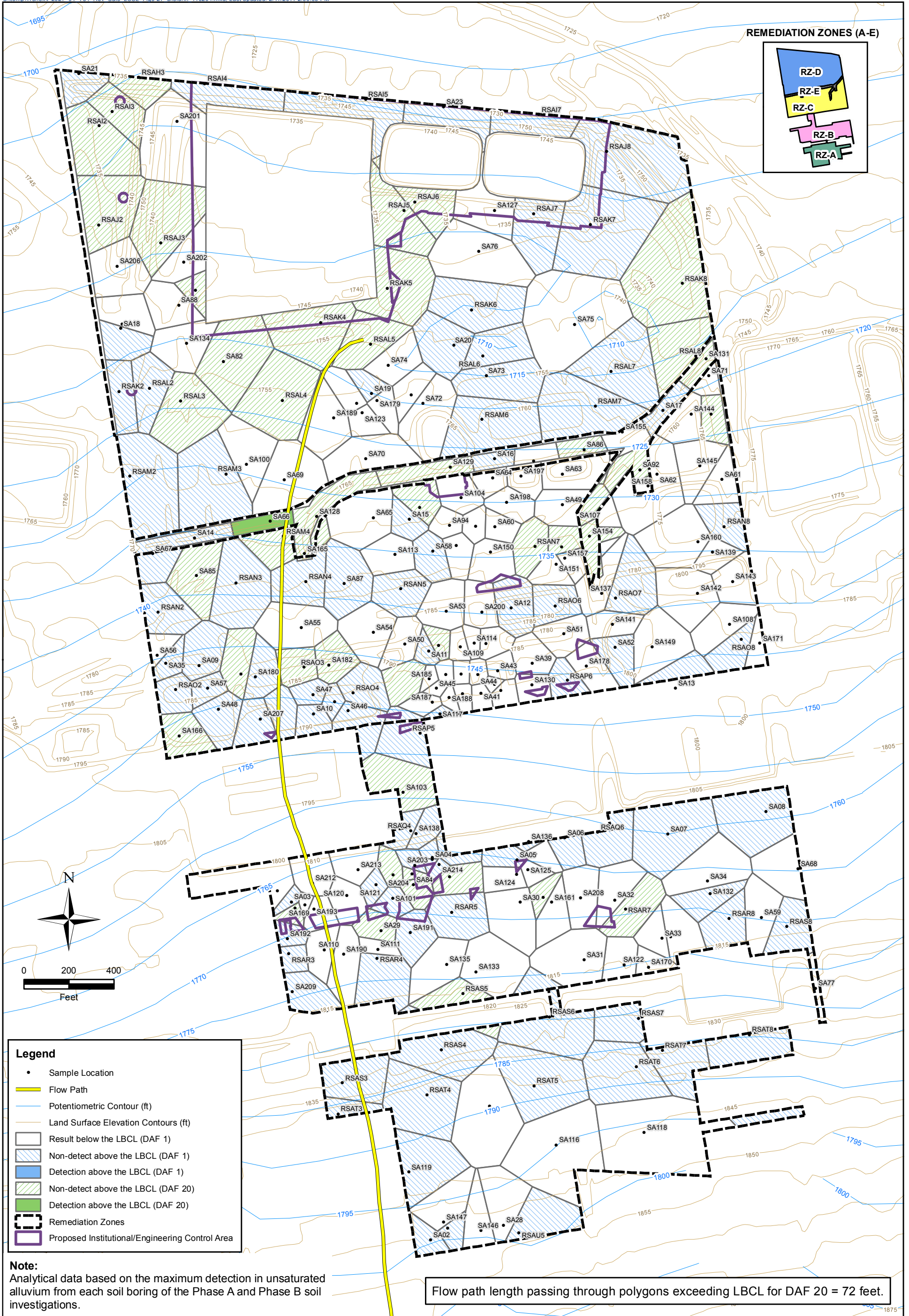
<b>Chloroform in Soil</b>		
Revised Technical Memorandum: Calculation of LSSLs		
Tronox LLC		
Henderson, Nevada		
SCALE: 1 in = 400 ft	DATE: 2/1/2011	PROJECT NUMBER: 2027.01 T51

DESIGNED BY:		REVISIONS	
NGEM	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
MW			
CHECKED BY:			
SM			
APPROVED BY:			
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SHEET NUMBER:  
1

FIGURE NUMBER:  
3-27

**Dieldrin in Soil**  
Revised Technical Memorandum: Calculation of LSSLS  
Tronox LLC  
Henderson, Nevada

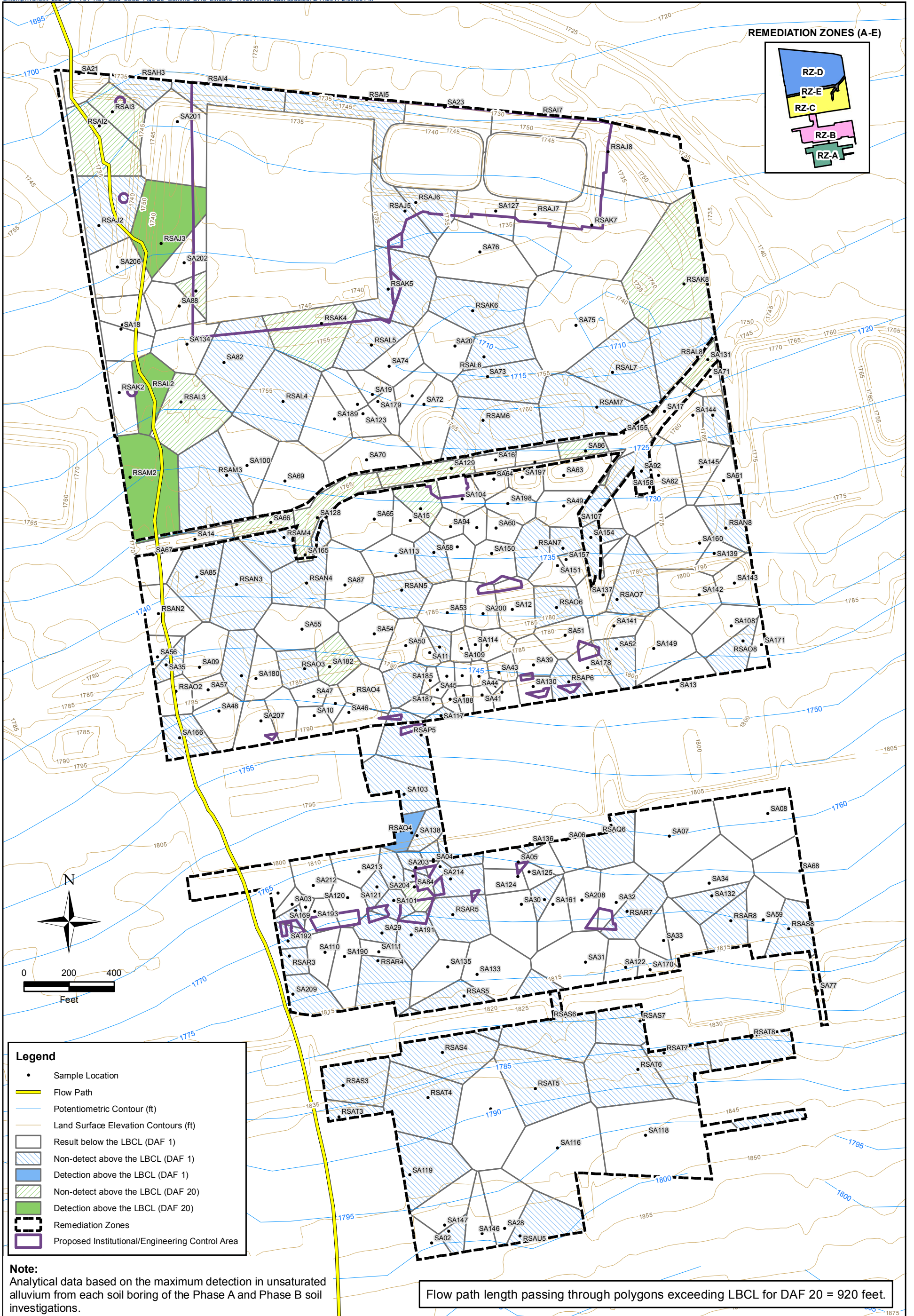
SCALE: 1 in = 400 ft  
DATE: 2/1/2011  
PROJECT NUMBER: 2027.01 T51

DESIGNED BY:		REVISIONS		DATE:	BY:
NGEM	NO.:	DESCRIPTION:			
DRAWN BY:					
MW					
CHECKED BY:					
SM					
APPROVED BY:					
TB					

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SHEET NUMBER:  
1

FIGURE NUMBER:  
3-28

**Gamma-BHC (Lindane) in Soil**  
 Revised Technical Memorandum: Calculation of LSSLS  
 Tronox LLC  
 Henderson, Nevada

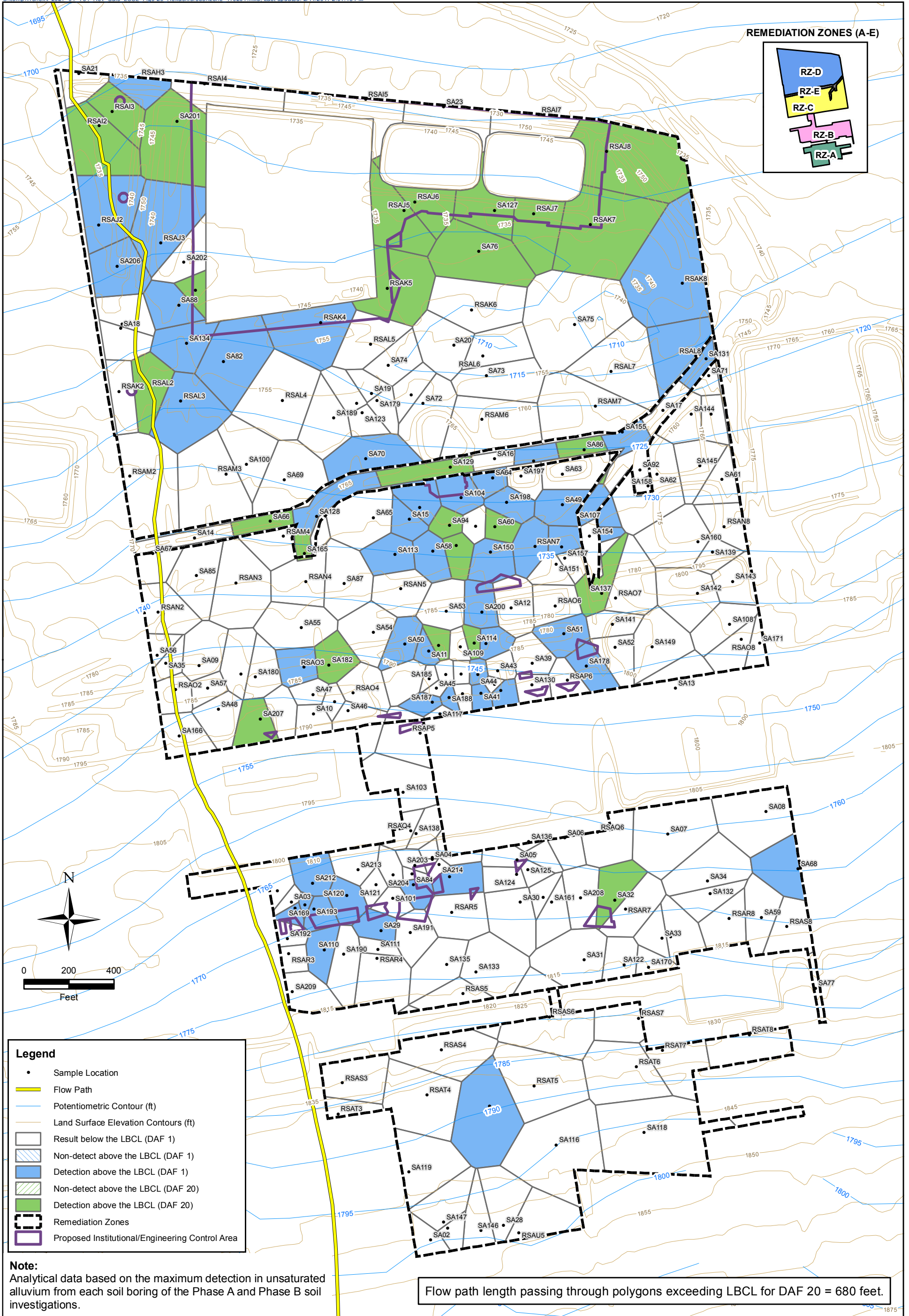
SCALE: 1 in = 400 ft  
 DATE: 2/1/2011  
 PROJECT NUMBER: 2027.01 T51

DESIGNED BY:		REVISIONS	
NGEM	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
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APPROVED BY:			
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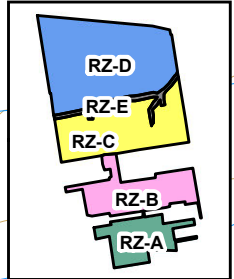
**northgate**  
 environmental management, inc.

**TRONOX**  
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REMEDIATION ZONES (A-E)



Legend

- Sample Location
- Flow Path
- Potentiometric Contour (ft)
- Land Surface Elevation Contours (ft)
- Result below the LBCL (DAF 1)
- Non-detect above the LBCL (DAF 1)
- Detection above the LBCL (DAF 1)
- Non-detect above the LBCL (DAF 20)
- Detection above the LBCL (DAF 20)
- Remediation Zones
- Proposed Institutional/Engineering Control Area

Note:

Analytical data based on the maximum detection in unsaturated alluvium from each soil boring of the Phase A and Phase B soil investigations.

Flow path length passing through polygons exceeding LBCL for DAF 20 = 680 feet.

SHEET NUMBER: 1	FIGURE NUMBER: 3-29	<b>Hexachlorobenzene in Soil</b> Revised Technical Memorandum: Calculation of LSSLS Tronox LLC Henderson, Nevada		DESIGNED BY:	REVISIONS		
		SCALE: 1 in = 400 ft	DATE: 2/1/2011	PROJECT NUMBER: 2027.01 T51	NGEM NO.:	DESCRIPTION:	DATE:
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