

Tronox Remediation Program Schedule January 5, 2011

ID	Task Name	Duration	Start	Finish	Predecessors	Q3			Q4			Q1			Q2			Q3			
						J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
1	Phase B Soil Investigation/Remediation Program	832 days	Mon 7/7/08	Tue 9/6/11																	
2	Finalize Phase B Site Investigation	447 days	Wed 4/15/09	Thu 12/23/10																	
3	Receipt of Phase B Final Lab Data	54 days	Thu 10/15/09	Wed 12/30/09																	
8	Data Mgmt/Validation	447 days	Wed 4/15/09	Thu 12/23/10																	
14	NDEP Phase B Source Area Meetings	15 days	Mon 1/18/10	Fri 2/5/10																	
18	Phase B Reporting	100 days	Fri 11/20/09	Thu 4/8/10																	
53	Remediation Planning	59 days	Mon 12/7/09	Thu 2/25/10																	
59	Phase B Remediation Supplemental Sampling	390 days	Mon 11/23/09	Fri 5/13/11																	
60	Area I	43 days	Mon 11/23/09	Wed 1/20/10																	
64	Area II	49 days	Mon 12/7/09	Thu 2/11/10																	
69	Waste Profile	245 days	Thu 2/11/10	Thu 1/13/11																	
70	Submittal of Analysis Profiles to Landfills	0 days	Thu 2/11/10	Thu 2/11/10	68																
71	Acceptance of Profile Information by Landfills (subject to change)	245 days	Fri 2/12/10	Thu 1/13/11																	
72	Parcel Profile	26 days	Fri 2/12/10	Fri 3/19/10	70																
73	MN Tails Profile	34 days	Fri 2/12/10	Wed 3/31/10	70																
74	Site-Wide Profile	111 days	Fri 3/5/10	Fri 7/30/10	70FS+15 days																
75	Potential Haz Areas	26 days	Mon 8/9/10	Mon 9/13/10																	
79	LOU 10 - Haz Waste Landfill	149 days	Fri 3/12/10	Wed 9/29/10	70FS+20 days																
85	RZ-E	51 days	Thu 11/4/10	Thu 1/13/11																	
86	Site Wide	27 days	Thu 11/4/10	Fri 12/10/10																	
87	Sample Collection	1 day	Thu 11/4/10	Thu 11/4/10																	
88	Analyses	5 days	Fri 11/5/10	Thu 11/11/10	87																
89	Evaluation	5 days	Fri 11/12/10	Thu 11/18/10	88																
90	Acceptance	16 days	Fri 11/19/10	Fri 12/10/10	89																
91	VOCs	8 days	Tue 1/4/11	Thu 1/13/11																	
92	Sample Collection	1 day	Tue 1/4/11	Tue 1/4/11																	
93	Analyses	5 days	Wed 1/5/11	Tue 1/11/11	92																
94	Evaluation	2 days	Wed 1/12/11	Thu 1/13/11	93																
95	ACM	15 days	Wed 12/15/10	Tue 1/4/11																	
96	Sample Collection	1 day	Wed 12/15/10	Wed 12/15/10																	
97	Analyses	5 days	Thu 12/16/10	Wed 12/22/10	96																
98	Evaluation	5 days	Thu 12/23/10	Wed 12/29/10	97																
99	Acceptance	4 days	Thu 12/30/10	Tue 1/4/11	98																
100	Data Validation and DVSR (Area I/II Supplemental Sampling)	118 days	Mon 2/15/10	Wed 7/21/10																	
109	Dioxin TEQ Bioaccessability Study	82 days	Mon 2/1/10	Tue 5/25/10																	
133	Pre-Confirmation Sampling	326 days	Fri 2/19/10	Fri 5/13/11																	
134	Scoping	4 days	Fri 2/19/10	Wed 2/24/10	58FS-5 days																
135	NDEP Meeting	1 day	Mon 2/22/10	Mon 2/22/10	134SS+1 day																
136	Work Plan	19 days	Thu 2/25/10	Tue 3/23/10																	
142	Bid Development	10 days	Mon 3/15/10	Fri 3/26/10																	
147	Field Work	211 days	Wed 3/24/10	Wed 1/5/11																	
148	Mobilization	5 days	Mon 3/29/10	Fri 4/2/10	146																
149	RZ-B	12 days	Wed 3/24/10	Thu 4/8/10																	
152	RZ-C	16 days	Fri 3/26/10	Fri 4/16/10																	
155	RZ-D	18 days	Fri 4/2/10	Tue 4/27/10																	
158	RZ-E	16 days	Fri 4/9/10	Fri 4/30/10																	

Task Milestone Rolled Up Task Rolled Up Progress External Tasks Group By Summary

Progress Summary Rolled Up Milestone Split Project Summary Deadline

*** Task milestone subject to change based on contractor input**
**** Pending BMI policy tasks - may be subject to change**

Tronox Remediation Program Schedule January 5, 2011













ID	Task Name	Duration	Start	Finish	Predecessors	Q3			Q4			Q1			Q2			Q3			
						J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
161	Additional Step-Out Sampling	137 days	Thu 5/13/10	Fri 11/12/10																	
162	First Phase	45 days	Thu 5/13/10	Wed 7/7/10																	
165	Second Phase	87 days	Thu 7/15/10	Fri 11/12/10																	
166	Field Coordination/GBP	7 days	Thu 7/15/10	Fri 7/23/10	185FS-15 days																
167	Field Sampling	80 days	Mon 7/26/10	Fri 11/12/10	166																
168	Third Phase	28 days	Mon 11/15/10	Wed 12/22/10																	
169	Field Coordination/GBP	5 days	Mon 11/15/10	Fri 11/19/10	167																
170	Field Sampling	23 days	Mon 11/22/10	Wed 12/22/10	169																
171	Laboratory Analysis	206 days	Wed 3/31/10	Wed 1/5/11																	
172	Screening Laboratory Analysis	91 days	Wed 3/31/10	Wed 7/28/10																	
173	Mobilization	3 days	Wed 3/31/10	Fri 4/2/10	145,151SS-3 day																
174	Screening Analysis	88 days	Mon 4/5/10	Wed 7/28/10																	
180	Fixed Lab Analysis	188 days	Mon 4/26/10	Wed 1/5/11																	
181	RZ-B	20 days	Mon 4/26/10	Fri 5/21/10	175																
182	RZ-C	20 days	Fri 4/30/10	Thu 5/27/10	176																
183	RZ-D	20 days	Mon 5/10/10	Fri 6/4/10	177																
184	RZ-E	20 days	Wed 5/19/10	Fri 6/11/10	178																
185	Additional Step-Out	20 days	Thu 7/8/10	Wed 8/4/10	164																
186	Additional Step-Out (second phase)	15 days	Mon 11/15/10	Fri 12/3/10	167																
187	EDDs from lab	10 days	Mon 12/6/10	Fri 12/17/10	186																
188	Additional Step-Out (3rd phase)	10 days	Thu 12/23/10	Wed 1/5/11	170																
189	Data Validation	193 days	Mon 5/24/10	Wed 2/9/11																	
190	RZ-B	20 days	Mon 5/24/10	Wed 6/16/10																	
193	RZ-C	20 days	Fri 5/28/10	Mon 6/21/10																	
196	RZ-D	20 days	Sat 6/5/10	Sun 6/27/10																	
199	RZ-E	20 days	Mon 6/14/10	Tue 7/6/10																	
202	Step-Out Sampling (1st and 2nd Phase)	22 days	Mon 12/20/10	Tue 1/18/11																	
203	DV EDDs	15 days	Mon 12/20/10	Fri 1/7/11	185FS+5 days,18																
204	Data Validation Summary Tables	7 days	Mon 1/10/11	Tue 1/18/11	203																
205	Step-Out Sampling (3rd Phase)	25 days	Thu 1/6/11	Wed 2/9/11																	
206	DV EDDs	20 days	Thu 1/6/11	Wed 2/2/11	188																
207	Data Validation Summary Tables	5 days	Thu 2/3/11	Wed 2/9/11	206																
208	Data Validation Summary Report - RZ Sampling	240 days	Thu 6/17/10	Fri 5/13/11																	
209	RZ-B	44 days	Thu 6/17/10	Thu 8/12/10																	
215	RZ-C	49 days	Tue 6/22/10	Wed 8/25/10																	
221	RZ-D	63 days	Mon 6/28/10	Wed 9/22/10																	
229	RZ-E	39 days	Wed 7/7/10	Mon 8/30/10																	
235	Step-Out Sampling (1st and 2nd Phase)	35 days	Tue 1/18/11	Tue 3/8/11																	
236	Submit Data Validation Summary Tables to NDEP	0 days	Tue 1/18/11	Tue 1/18/11	204																
237	Draft DVSR	10 days	Wed 1/19/11	Tue 2/1/11	204																
238	Submit to NDEP	0 days	Tue 2/1/11	Tue 2/1/11	237																
239	NDEP Review	10 days	Wed 2/2/11	Tue 2/15/11	238																
240	Respond to Comments/DVSR Finalization	10 days	Wed 2/16/11	Tue 3/1/11	239																
241	NDEP Review and Approval	5 days	Wed 3/2/11	Tue 3/8/11	240																
242	Step-Out Sampling (3rd Phase and Post Confirmation)	35 days	Mon 3/28/11	Fri 5/13/11																	
243	Draft DVSR	10 days	Mon 3/28/11	Fri 4/8/11	206,478,502																

Task: Milestone: Rolled Up Task: Rolled Up Progress: External Tasks: Group By Summary:
 Progress: Summary: Rolled Up Milestone: Split: Project Summary: Deadline:

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ID	Task Name	Duration	Start	Finish	Predecessors	Q3				Q4				Q1				Q2				Q3			
						J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	J	A	S	
244	Submit to NDEP	0 days	Fri 4/8/11	Fri 4/8/11	243																				
245	NDEP Review	10 days	Mon 4/11/11	Fri 4/22/11	244																				
246	Respond to Comments/DVSR Finalization	10 days	Mon 4/25/11	Fri 5/6/11	245																				
247	NDEP Review and Approval	5 days	Mon 5/9/11	Fri 5/13/11	246																				
248	Removal Action Work Plan (Including PAMP, SWPPP)	216 days	Mon 2/8/10	Mon 11/29/10																					
249	RAW Document	134 days	Mon 2/8/10	Thu 8/5/10																					
262	RZ-B Excavation Plan	81 days	Fri 5/14/10	Fri 8/27/10																					
273	RZ-C Excavation Plan	99 days	Fri 6/11/10	Fri 10/22/10																					
282	RZ-D Excavation Plan	78 days	Fri 5/28/10	Tue 9/7/10																					
290	RZ-E Excavation Plan**	139 days	Wed 5/26/10	Mon 11/29/10																					
296	Contractor Plans And Specifications/Contractor Selection	209 days	Mon 2/22/10	Thu 12/2/10																					
297	Demolition	114 days	Fri 2/26/10	Wed 7/28/10																					
315	Remediation	191 days	Thu 3/18/10	Thu 12/2/10																					
316	Mn Tailings	28 days	Thu 3/18/10	Mon 4/26/10																					
322	RZ-B Unit Buildings	5 days	Mon 7/19/10	Fri 7/23/10																					
325	Site Wide - (based on Area B and D, supplements to follow)	55 days	Fri 6/4/10	Thu 8/12/10																					
333	RZ-C	26 days	Fri 9/17/10	Fri 10/22/10																					
337	RZ-E**	8 days	Tue 11/23/10	Thu 12/2/10																					
341	Grading and Dust Monitoring Permit	150 days	Mon 2/22/10	Fri 9/10/10																					
347	Well Removal and Replacement (If required)	188 days	Fri 8/27/10	Tue 5/17/11																					
348	RZ-C	153 days	Mon 10/11/10	Wed 5/11/11																					
349	Well Abandonment	10 days	Mon 10/11/10	Fri 10/22/10																					
353	Well Reinstallation	13 days	Mon 4/25/11	Wed 5/11/11																					
354	Permitting	5 days	Mon 4/25/11	Fri 4/29/11	542SS,473																				
355	Mobilization	3 days	Mon 5/2/11	Wed 5/4/11	354																				
356	Well Installation	3 days	Thu 5/5/11	Mon 5/9/11	352,355																				
357	Well Development	2 days	Tue 5/10/11	Wed 5/11/11	356																				
358	RZ-D	188 days	Fri 8/27/10	Tue 5/17/11																					
359	Well Abandonment	10 days	Fri 8/27/10	Thu 9/9/10																					
363	Well Reinstallation	17 days	Mon 4/25/11	Tue 5/17/11																					
364	Permitting	5 days	Mon 4/25/11	Fri 4/29/11	473																				
365	Mobilization	3 days	Mon 5/2/11	Wed 5/4/11	364																				
366	Well Installation	6 days	Thu 5/5/11	Thu 5/12/11	362,365																				
367	Well Development	3 days	Fri 5/13/11	Tue 5/17/11	366																				
368	Soil Remediation	740 days	Mon 7/7/08	Fri 4/29/11																					
369	Identify Backfill Source(s)	130 days	Mon 4/5/10	Fri 9/24/10																					
375	Implementation of SWPPP Measures	20 days	Thu 8/12/10	Wed 9/8/10																					
378	Parcel C, D, F, G, H WP Approval	0 days	Mon 7/7/08	Mon 7/7/08																					
379	Parcels C, D, F, G and H	57 days	Mon 2/15/10	Tue 5/4/10																					
380	Contractor Selection	20 days	Mon 2/15/10	Fri 3/12/10	378																				
381	Notice to Proceed	0 days	Fri 3/12/10	Fri 3/12/10	380																				
382	Parcels F, G and H	27 days	Mon 3/22/10	Tue 4/27/10	381																				
386	Parcels C and D	17 days	Mon 4/12/10	Tue 5/4/10																					
390	Mn Tailings	190 days	Mon 4/26/10	Fri 1/7/11																					
391	Tailings Removal	66 days	Mon 4/26/10	Mon 7/19/10																					
396	Confirmation Sampling	114 days	Sat 6/26/10	Tue 11/30/10																					







Task 
Milestone 
Rolled Up Task 
Rolled Up Progress 
External Tasks 
Group By Summary 
Progress 
Summary 
Rolled Up Milestone 
Split 
Project Summary 
Deadline 

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ID	Task Name	Duration	Start	Finish	Predecessors	Q3			Q4			Q1			Q2			Q3				
						J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
397	Confirmation Sampling Workplan	34 days	Sat 6/26/10	Tue 8/10/10																		
405	Field Sampling	5 days	Wed 9/1/10	Tue 9/7/10	404FS+15 days																	
406	Analysis	25 days	Wed 9/8/10	Tue 10/12/10	405																	
407	Additional Sampling	5 days	Wed 10/27/10	Tue 11/2/10	406FS+10 days																	
408	Analysis	15 days	Wed 11/3/10	Tue 11/23/10	407																	
409	EDDs from lab	5 days	Wed 11/24/10	Tue 11/30/10	408																	
410	Additional Remediation	33 days	Wed 11/24/10	Fri 1/7/11																		
411	Excavation Planning	5 days	Wed 11/24/10	Tue 11/30/10	408																	
412	Submit Errata to NDEP	3 days	Wed 12/1/10	Fri 12/3/10	411																	
413	NDEP Approval	5 days	Mon 12/6/10	Fri 12/10/10	412																	
414	Excavation	20 days	Mon 12/13/10	Fri 1/7/11	411FS+8 days,4																	
415	Remediation Zones	261 days	Fri 5/7/10	Fri 4/29/11																		
416	Contractor Mob	4 days	Tue 8/3/10	Fri 8/6/10	324FS+6 days																	
417	RZ-B Unit Buildings	94 days	Tue 8/10/10	Fri 12/17/10																		
418	Unit 1 Building	22 days	Tue 8/10/10	Wed 9/8/10																		
422	Unit 2 Building	33 days	Wed 11/3/10	Fri 12/17/10																		
423	Notice to Proceed	1 day	Wed 11/3/10	Wed 11/3/10																		
424	Permitting/Mobilization	10 days	Thu 11/4/10	Wed 11/17/10	423																	
425	Excavate, Transport to TSDF	22 days	Thu 11/18/10	Fri 12/17/10	423FS+2 days,4																	
426	Dust Monitoring	22 days	Thu 11/18/10	Fri 12/17/10	425SS																	
427	Perimeter Air Monitoring	22 days	Thu 11/18/10	Fri 12/17/10	426SS																	
428	RZ-B	138 days	Mon 8/23/10	Wed 3/2/11																		
429	Remove Debris and Obstructions	25 days	Mon 8/23/10	Fri 9/24/10	331,416FS+10 d																	
430	Remove Applicable Utilities	25 days	Mon 8/23/10	Fri 9/24/10	429SS																	
431	Install Temporary Critical Utilities	2 days	Mon 9/27/10	Tue 9/28/10	430																	
432	Excavate, Transport to TSDF	105 days	Mon 9/13/10	Fri 2/4/11	331,416,344,346																	
433	Dust Monitoring	105 days	Mon 9/13/10	Fri 2/4/11	432SS																	
434	Perimeter Air Monitoring	105 days	Mon 9/13/10	Fri 2/4/11	433SS																	
435	Backfill	10 days	Mon 1/24/11	Fri 2/4/11	434FS-10 days																	
436	RZ-B-20/21	58 days	Mon 11/29/10	Wed 2/16/11																		
437	Excavation to 4 ft	10 days	Mon 11/29/10	Fri 12/10/10	432FS-50 days																	
438	Engineering evaluation - soil flushing design	10 days	Mon 12/13/10	Fri 12/24/10	437																	
439	Underpin Design	10 days	Mon 1/3/11	Fri 1/14/11	438FS+5 days																	
440	Excavation to 10 feet	10 days	Mon 1/17/11	Fri 1/28/11	439																	
441	Installation of soil flushing system	10 days	Mon 1/31/11	Fri 2/11/11	440																	
442	Backfill	3 days	Mon 2/14/11	Wed 2/16/11	441																	
443	RZ-B - SE end	10 days	Thu 2/17/11	Wed 3/2/11																		
444	Excavation	5 days	Thu 2/17/11	Wed 2/23/11	442																	
445	Backfill	5 days	Thu 2/24/11	Wed 3/2/11	444																	
446	RZ-B - VI Soil	7 days	Mon 1/17/11	Tue 1/25/11																		
447	Excavation	2 days	Mon 1/17/11	Tue 1/18/11	432SS+90 days																	
448	Backfill	5 days	Wed 1/19/11	Tue 1/25/11	447																	
449	RZ-C	130 days	Mon 10/25/10	Fri 4/22/11																		
450	C- South	93 days	Mon 10/25/10	Wed 3/2/11																		
451	Remove Debris and Obstructions	55 days	Mon 11/8/10	Fri 1/21/11	336FS+10 days,3																	
452	Remove Applicable Utilities	11 days	Mon 10/25/10	Mon 11/8/10	451SS-10 days																	







Task  Milestone  Rolled Up Task  Rolled Up Progress  External Tasks  Group By Summary 







Progress  Summary  Rolled Up Milestone  Split  Project Summary  Deadline 

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						J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
453	Install Temporary Critical Utilities	5 days	Tue 11/9/10	Mon 11/15/10	452																	
454	Excavate, Transport to TSDF	60 days	Wed 11/24/10	Tue 2/15/11	336,331,392,451																	
455	Dust Monitoring	60 days	Wed 11/24/10	Tue 2/15/11	454SS																	
456	Perimeter Air Monitoring	60 days	Wed 11/24/10	Tue 2/15/11	455SS																	
457	Backfill	15 days	Thu 2/10/11	Wed 3/2/11	456FS-4 days																	
458	C- North	71 days	Thu 11/11/10	Thu 2/17/11																		
459	Remove Debris and Obstructions	40 days	Thu 11/25/10	Wed 1/19/11	336FS+10 days,																	
460	Remove Applicable Utilities	11 days	Thu 11/11/10	Thu 11/25/10	459SS-10 days																	
461	Install Temporary Critical Utilities	5 days	Fri 11/26/10	Thu 12/2/10	460																	
462	Excavate, Transport to TSDF	36 days	Thu 12/30/10	Thu 2/17/11	459FS-15 days																	
463	Dust Monitoring	36 days	Thu 12/30/10	Thu 2/17/11	462SS																	
464	Perimeter Air Monitoring	36 days	Thu 12/30/10	Thu 2/17/11	463SS																	
465	Backfill	15 days	Fri 1/28/11	Thu 2/17/11	464FS-15 days																	
466	RZ-C - roadway/critical utilities	56 days	Fri 2/4/11	Fri 4/22/11																		
467	Remove Debris and Obstructions	10 days	Fri 2/18/11	Thu 3/3/11	451,462																	
468	Remove Applicable Utilities	11 days	Fri 2/4/11	Fri 2/18/11	467SS-10 days																	
469	Install Temporary Critical Utilities	5 days	Mon 2/21/11	Fri 2/25/11	468																	
470	Excavate, Transport to TSDF	20 days	Mon 2/21/11	Fri 3/18/11	467FS-9 days																	
471	Dust Monitoring	20 days	Mon 2/21/11	Fri 3/18/11	470SS																	
472	Perimeter Air Monitoring	20 days	Mon 2/21/11	Fri 3/18/11	471SS																	
473	Backfill	30 days	Mon 3/14/11	Fri 4/22/11	472FS-5 days																	
474	RZ-C - VI Soil	49 days	Fri 1/28/11	Wed 4/6/11																		
475	Excavation	20 days	Fri 1/28/11	Thu 2/24/11	462FS-15 days																	
476	Confirmation Sampling	1 day	Fri 2/25/11	Fri 2/25/11	475																	
477	Receipt of Analytical Results	15 days	Mon 2/28/11	Fri 3/18/11	476																	
478	Receipt of Validated Results	5 days	Mon 3/21/11	Fri 3/25/11	477																	
479	Evaluation	3 days	Mon 3/28/11	Wed 3/30/11	478																	
480	Backfill	5 days	Thu 3/31/11	Wed 4/6/11	479																	
481	RZ-D	227 days	Fri 5/7/10	Mon 3/14/11																		
482	Remove Debris and Obstructions	20 days	Thu 8/26/10	Wed 9/22/10	331FS+10 days																	
483	Remove Applicable Utilities	20 days	Thu 8/26/10	Wed 9/22/10	482SS																	
484	Install Temporary Critical Utilities	20 days	Thu 9/23/10	Wed 10/20/10	483																	
485	Haul Road Development	5 days	Fri 5/7/10	Thu 5/13/10	392																	
486	Dust Monitoring	80 days	Mon 9/13/10	Fri 12/31/10	487SS																	
487	Excavate, Transport to TSDF	80 days	Mon 9/13/10	Fri 12/31/10	331,392,485,346																	
488	Perimeter Air Monitoring	80 days	Mon 9/13/10	Fri 12/31/10	486SS																	
489	Backfill	47 days	Tue 12/28/10	Wed 3/2/11	488FS-4 days																	
490	RZ-D Western Property Boundary	15 days	Wed 1/5/11	Tue 1/25/11																		
491	Access Agreement with BMI	5 days	Wed 1/5/11	Tue 1/11/11																		
492	Excavation/Backfill	10 days	Wed 1/12/11	Tue 1/25/11	491																	
493	RZ-D - PRP Lines	30 days	Mon 1/3/11	Fri 2/11/11																		
494	Engineering Evaluation	10 days	Mon 1/3/11	Fri 1/14/11																		
495	Excavation	15 days	Mon 1/17/11	Fri 2/4/11	494																	
496	Backfill	5 days	Mon 2/7/11	Fri 2/11/11	495																	
497	RZ-D - VI Soil	59 days	Wed 12/22/10	Mon 3/14/11																		
498	Identification and Potholing	10 days	Wed 12/22/10	Tue 1/4/11																		

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Progress  Summary  Rolled Up Milestone  Split  Project Summary  Deadline 

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						J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
499	Excavation	20 days	Wed 1/5/11	Tue 2/1/11	498																
500	Confirmation Sampling	1 day	Wed 2/2/11	Wed 2/2/11	499																
501	Receipt of Analytical Results	15 days	Thu 2/3/11	Wed 2/23/11	500																
502	Receipt of Validated Results	5 days	Thu 2/24/11	Wed 3/2/11	501																
503	Evaluation	3 days	Thu 3/3/11	Mon 3/7/11	502																
504	Backfill	5 days	Tue 3/8/11	Mon 3/14/11	503																
505	LOU 10	63 days	Wed 10/6/10	Fri 12/31/10																	
510	RZ-E	79 days	Fri 12/3/10	Wed 3/23/11																	
511	Remove Debris and Obstructions	10 days	Fri 12/3/10	Thu 12/16/10	340,331,485,392																
512	Remove Applicable Utilities	15 days	Fri 12/3/10	Thu 12/23/10	511SS																
513	Install Temporary Critical Utilities	5 days	Fri 12/24/10	Thu 12/30/10	512																
514	Excavate, Transport to TSDf - E and W end	21 days	Fri 12/3/10	Fri 12/31/10	340,331,485,392																
515	Dust Monitoring	21 days	Fri 12/3/10	Fri 12/31/10	514SS																
516	Perimeter Air Monitoring	21 days	Fri 12/3/10	Fri 12/31/10	515SS																
517	ACM Impacted Soil	44 days	Fri 12/17/10	Wed 2/16/11																	
518	Identification of ACM after Grubbing	1 day	Fri 12/17/10	Fri 12/17/10	511																
519	Cost Evaluation	7 days	Mon 12/20/10	Tue 12/28/10	518																
520	Approval	3 days	Wed 12/29/10	Fri 12/31/10	519																
521	Excavation	30 days	Thu 1/6/11	Wed 2/16/11	520FS+3 days																
522	Excavate, Transport to TSDf	10 days	Thu 2/17/11	Wed 3/2/11	521																
523	Dust Monitoring	10 days	Thu 2/17/11	Wed 3/2/11	522SS																
524	Perimeter Air Monitoring	10 days	Thu 2/17/11	Wed 3/2/11	523SS																
525	Backfill	15 days	Thu 3/3/11	Wed 3/23/11	524																
526	Contractor Demobilization	5 days	Mon 4/25/11	Fri 4/29/11	473,525																
527	Data Validation and DVSR Reports	200 days	Wed 5/5/10	Tue 2/1/11																	
528	Parcel C, D, F, G, & H	66 days	Wed 5/5/10	Wed 7/28/10																	
529	Data Validation	15 days	Wed 5/5/10	Tue 5/25/10	385,389																
530	DV Summary Tables	5 days	Wed 5/26/10	Tue 6/1/10	529																
531	Data Validation Summary Report	46 days	Wed 6/2/10	Wed 7/28/10																	
538	Manganese Tails Area - within RZ-C	0 days	Tue 2/1/11	Tue 2/1/11	238																
539	Replace Utility Lines as Necessary	98 days	Wed 2/2/11	Fri 6/17/11																	
540	Perimeter Air Monitoring (if necessary)	95 days	Mon 2/7/11	Fri 6/17/11	432																
541	RZ-B	20 days	Mon 2/7/11	Fri 3/4/11	432,540SS,447																
542	RZ-C	20 days	Mon 4/25/11	Fri 5/20/11	454,458,466																
543	RZ-D	20 days	Wed 2/2/11	Tue 3/1/11	487,499																
544	RZ-E	10 days	Thu 3/3/11	Wed 3/16/11	514,522																
545	Environmental Covenants	261 days	Mon 3/8/10	Mon 2/28/11																	
546	EC Working Document Preparation (part of RAW)	43 days	Mon 3/8/10	Wed 5/5/10																	
547	Submit EC Working Doc to NDEP	0 days	Wed 5/5/10	Wed 5/5/10	546																
548	NDEP Review	20 days	Thu 5/6/10	Wed 6/2/10	547																
549	Submit EC Doc with Final EC Areas	24 days	Mon 11/8/10	Thu 12/9/10	548,203FS-45 da																
550	Respond to Comments/WP Finalization	17 days	Fri 12/10/10	Mon 1/3/11	549																
551	NDEP Prelim approval	20 days	Tue 1/4/11	Mon 1/31/11	550																
552	NDEP Approval	20 days	Tue 2/1/11	Mon 2/28/11	551																
553	Develop Risk Management Plan	65 days	Fri 11/26/10	Thu 2/24/11																	
554	RMP Preparation	15 days	Fri 11/26/10	Thu 12/16/10	549FS-10 days																













Task Milestone Rolled Up Task Rolled Up Progress External Tasks Group By Summary

Progress Summary Rolled Up Milestone Split Project Summary Deadline

*** Task milestone subject to change based on contractor input**
**** Pending BMI policy tasks - may be subject to change**

Tronox Remediation Program Schedule January 5, 2011













ID	Task Name	Duration	Start	Finish	Predecessors	Q3			Q4			Q1			Q2			Q3				
						J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
555	Submit RMP to NDEP	0 days	Thu 12/16/10	Thu 12/16/10	554																	
556	NDEP Review	20 days	Fri 12/17/10	Thu 1/13/11	555																	
557	Respond to Comments/RMP Finalization	10 days	Fri 1/14/11	Thu 1/27/11	556																	
558	NDEP Approval	20 days	Fri 1/28/11	Thu 2/24/11	557																	
559	Cap Pond Berms	20 days	Mon 1/31/11	Fri 2/25/11	487FS+20 days																	
560	Final Grading	40 days	Wed 5/18/11	Tue 7/12/11																		
561	RZ-B	20 days	Wed 5/25/11	Tue 6/21/11	612																	
562	RZ-C	20 days	Wed 6/15/11	Tue 7/12/11	622																	
563	RZ-D	10 days	Wed 5/18/11	Tue 5/31/11	632																	
564	RZ-E	10 days	Mon 6/27/11	Fri 7/8/11	642																	
565	Human Health Risk Evaluation	442 days	Mon 1/4/10	Tue 9/6/11																		
566	Human Health Risk WP	48 days	Mon 1/4/10	Wed 3/10/10																		
570	Human Health Risk Evaluation/Reports	354 days	Tue 2/23/10	Fri 6/24/11																		
571	Decision Unit Development	132 days	Tue 2/23/10	Wed 8/18/10																		
579	Post Closure Risk Assessment	340 days	Mon 3/15/10	Fri 6/24/11																		
580	RZ-A	105 days	Mon 3/15/10	Fri 7/30/10																		
593	Parcel A/B Soil Gas	16 days	Mon 10/25/10	Mon 11/15/10																		
594	Respond to NDEP Comments	16 days	Mon 10/25/10	Mon 11/15/10																		
595	Parcel CDFGH	85 days	Mon 10/25/10	Fri 2/18/11																		
596	Data Evaluation	10 days	Mon 10/25/10	Fri 11/5/10	537FS+62 days																	
597	Data Usability	10 days	Mon 11/8/10	Fri 11/19/10	596																	
598	Prepare HHRA	15 days	Mon 11/22/10	Fri 12/10/10	597																	
599	Submit RA to NDEP	0 days	Fri 12/10/10	Fri 12/10/10	598																	
600	NDEP Review and Comment	20 days	Mon 12/13/10	Fri 1/7/11	599																	
601	RTC and Revisions	10 days	Mon 1/10/11	Fri 1/21/11	600																	
602	NDEP Review and Approval	20 days	Mon 1/24/11	Fri 2/18/11	601																	
603	RZ-B	247 days	Thu 6/17/10	Tue 5/24/11																		
604	Data Evaluation	5 days	Thu 6/17/10	Tue 6/22/10	575,181																	
605	Data Table Preparation and Submittal to NDEP	20 days	Mon 12/20/10	Fri 1/14/11	604,408,187																	
606	Data Usability	15 days	Wed 1/19/11	Tue 2/8/11	210SF+4 days,20																	
607	Preliminary Risk Calculations	10 days	Wed 2/9/11	Tue 2/22/11	606																	
608	Prepare HHRA	20 days	Wed 2/23/11	Tue 3/22/11	607,211FF,204,2																	
609	Submit RA to NDEP	0 days	Tue 3/22/11	Tue 3/22/11	608																	
610	NDEP Review and Comment	15 days	Wed 3/23/11	Tue 4/12/11	609																	
611	RTC and Revisions	10 days	Wed 4/13/11	Tue 4/26/11	610																	
612	NDEP Review and Approval	20 days	Wed 4/27/11	Tue 5/24/11	611																	
613	RZ-C (includes Mn Tails Area)	258 days	Tue 6/22/10	Tue 6/14/11																		
614	Data Evaluation	5 days	Tue 6/22/10	Sat 6/26/10	576,182																	
615	Data Table Preparation and Submittal to NDEP	20 days	Mon 1/3/11	Fri 1/28/11	614,408,187FS+																	
616	Data Usability	10 days	Mon 1/31/11	Fri 2/11/11	216SF+4 days,20																	
617	Preliminary Risk Calculations	10 days	Mon 2/14/11	Fri 2/25/11	616																	
618	Prepare HHRA	27 days	Mon 2/28/11	Tue 4/5/11	617,217FF,237FF																	
619	Submit RA to NDEP	0 days	Tue 4/5/11	Tue 4/5/11	618																	
620	NDEP Review and Comment	20 days	Wed 4/6/11	Tue 5/3/11	619																	
621	RTC and Revisions	10 days	Wed 5/4/11	Tue 5/17/11	620																	
622	NDEP Review and Approval	20 days	Wed 5/18/11	Tue 6/14/11	621																	

Task		Milestone		Rolled Up Task		Rolled Up Progress		External Tasks		Group By Summary	
Progress		Summary		Rolled Up Milestone		Split		Project Summary		Deadline	

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**** Pending BMI policy tasks - may be subject to change**

Tronox Remediation Program Schedule January 5, 2011

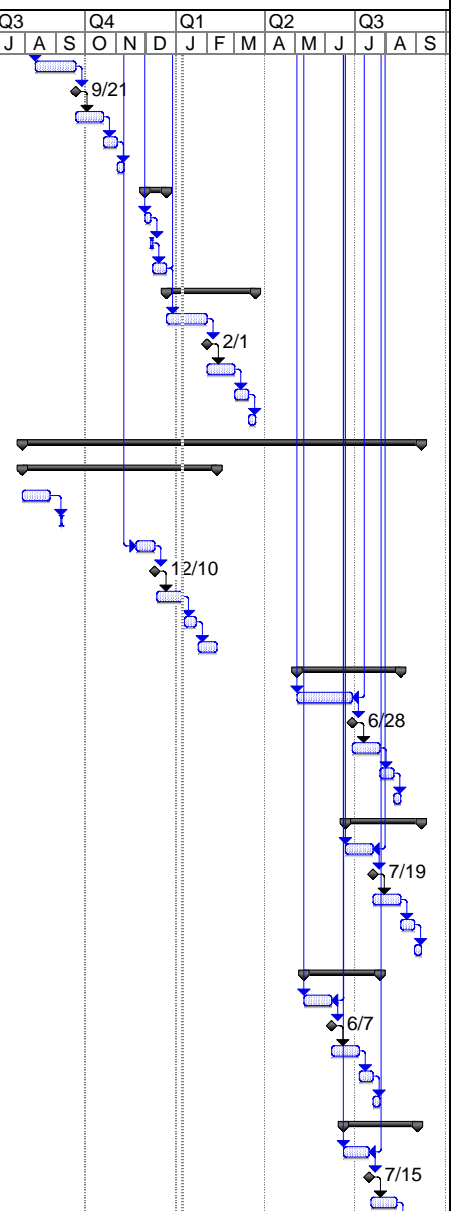
ID	Task Name	Duration	Start	Finish	Predecessors	Calendar														
						Q3	Q4	Q1	Q2	Q3	J	J	A	S	O	N	D	J	F	M
623	RZ-D (includes LOU 10)	232 days	Mon 6/28/10	Tue 5/17/11		[Gantt bar from Mon 6/28/10 to Tue 5/17/11]														
624	Data Evaluation	5 days	Mon 6/28/10	Fri 7/2/10	577,183	[Task bar from Mon 6/28/10 to Fri 7/2/10]														
625	Data Table Preparation and Submittal to NDEP	20 days	Mon 12/20/10	Fri 1/14/11	624,408,187	[Task bar from Mon 12/20/10 to Fri 1/14/11]														
626	Data Usability	10 days	Wed 1/19/11	Tue 2/1/11	222SF+4 days,20	[Task bar from Wed 1/19/11 to Tue 2/1/11]														
627	Preliminary Risk Calculations	10 days	Wed 2/2/11	Tue 2/15/11	626	[Task bar from Wed 2/2/11 to Tue 2/15/11]														
628	Prepare HHRA	15 days	Wed 2/16/11	Tue 3/8/11	627,223FF	[Task bar from Wed 2/16/11 to Tue 3/8/11]														
629	Submit RA to NDEP	0 days	Tue 3/8/11	Tue 3/8/11	628	[Milestone diamond at Tue 3/8/11]														
630	NDEP Review and Comment	20 days	Wed 3/9/11	Tue 4/5/11	629	[Task bar from Wed 3/9/11 to Tue 4/5/11]														
631	RTC and Revisions	10 days	Wed 4/6/11	Tue 4/19/11	630	[Task bar from Wed 4/6/11 to Tue 4/19/11]														
632	NDEP Review and Approval	20 days	Wed 4/20/11	Tue 5/17/11	631	[Task bar from Wed 4/20/11 to Tue 5/17/11]														
633	RZ-E	253 days	Wed 7/7/10	Fri 6/24/11		[Gantt bar from Wed 7/7/10 to Fri 6/24/11]														
634	Data Evaluation	5 days	Wed 7/7/10	Tue 7/13/10	578,184	[Task bar from Wed 7/7/10 to Tue 7/13/10]														
635	Data Table Preparation and Submittal to NDEP	20 days	Mon 1/31/11	Fri 1/28/11	634,408,187FS+	[Task bar from Mon 1/31/11 to Fri 1/28/11]														
636	Data Usability	10 days	Mon 1/31/11	Fri 2/11/11	230SF+4 days,20	[Task bar from Mon 1/31/11 to Fri 2/11/11]														
637	Preliminary Risk Calculations	10 days	Mon 2/14/11	Fri 2/25/11	636	[Task bar from Mon 2/14/11 to Fri 2/25/11]														
638	Prepare HHRA	35 days	Mon 2/28/11	Fri 4/15/11	637,231FF	[Task bar from Mon 2/28/11 to Fri 4/15/11]														
639	Submit RA to NDEP	0 days	Fri 4/15/11	Fri 4/15/11	638	[Milestone diamond at Fri 4/15/11]														
640	NDEP Review and Comment	20 days	Mon 4/18/11	Fri 5/13/11	639	[Task bar from Mon 4/18/11 to Fri 5/13/11]														
641	RTC and Revisions	10 days	Mon 5/16/11	Fri 5/27/11	640	[Task bar from Mon 5/16/11 to Fri 5/27/11]														
642	NDEP Review and Approve RA	20 days	Mon 5/30/11	Fri 6/24/11	641	[Task bar from Mon 5/30/11 to Fri 6/24/11]														
643	Site Wide Soil Gas Risk Assessment Report	106 days	Mon 9/6/10	Mon 1/31/11		[Gantt bar from Mon 9/6/10 to Mon 1/31/11]														
644	Data Evaluation	15 days	Mon 9/6/10	Fri 9/24/10		[Task bar from Mon 9/6/10 to Fri 9/24/10]														
645	Data Usability	16 days	Mon 9/27/10	Mon 10/18/10	644	[Task bar from Mon 9/27/10 to Mon 10/18/10]														
646	Prepare HHRA	25 days	Tue 10/19/10	Mon 11/22/10	645	[Task bar from Tue 10/19/10 to Mon 11/22/10]														
647	Submit RA to NDEP	0 days	Mon 11/22/10	Mon 11/22/10	646	[Milestone diamond at Mon 11/22/10]														
648	NDEP Review and Comment	20 days	Tue 11/23/10	Mon 12/20/10	647	[Task bar from Tue 11/23/10 to Mon 12/20/10]														
649	RTC and Revisions	10 days	Tue 12/21/10	Mon 1/3/11	648	[Task bar from Tue 12/21/10 to Mon 1/3/11]														
650	NDEP Review and Approve RA	20 days	Tue 1/4/11	Mon 1/31/11	649	[Task bar from Tue 1/4/11 to Mon 1/31/11]														
651	Soil Vapor Intrusion Evaluation and Mitigation	322 days	Mon 1/4/10	Tue 3/22/11		[Gantt bar from Mon 1/4/10 to Tue 3/22/11]														
652	Evaluate Soil Gas Data	10 days	Mon 1/4/10	Fri 1/15/10		[Task bar from Mon 1/4/10 to Fri 1/15/10]														
653	Evaluate Phase B Soil Data	10 days	Mon 1/18/10	Fri 1/29/10	652	[Task bar from Mon 1/18/10 to Fri 1/29/10]														
654	Evaluate Need for Mitigation	287 days	Mon 2/22/10	Tue 3/22/11		[Gantt bar from Mon 2/22/10 to Tue 3/22/11]														
655	IAQ Testing (if required)	287 days	Mon 2/22/10	Tue 3/22/11		[Gantt bar from Mon 2/22/10 to Tue 3/22/11]														
656	Evaluate need for IAQ Testing	10 days	Mon 2/22/10	Fri 3/5/10	653FS+15 days	[Task bar from Mon 2/22/10 to Fri 3/5/10]														
657	IAQ Testing Plan	40 days	Mon 3/8/10	Fri 4/30/10		[Gantt bar from Mon 3/8/10 to Fri 4/30/10]														
665	IAQ Testing Implementation	181 days	Wed 5/5/10	Wed 1/5/11		[Gantt bar from Wed 5/5/10 to Wed 1/5/11]														
666	Building Inspections	2 days	Wed 5/5/10	Thu 5/6/10	662FS+15 days	[Task bar from Wed 5/5/10 to Thu 5/6/10]														
667	Tech Memo - Building Selection	15 days	Fri 5/14/10	Thu 6/3/10	666FS+5 days	[Task bar from Fri 5/14/10 to Thu 6/3/10]														
668	NDEP Approval	10 days	Fri 6/4/10	Tue 6/15/10	667	[Task bar from Fri 6/4/10 to Tue 6/15/10]														
669	Implementation	149 days	Wed 6/16/10	Wed 1/5/11	668	[Gantt bar from Wed 6/16/10 to Wed 1/5/11]														
670	Coordination/Mobilization	2 days	Wed 6/16/10	Thu 6/17/10		[Task bar from Wed 6/16/10 to Thu 6/17/10]														
671	Field Work	2 days	Fri 6/18/10	Sat 6/19/10	670	[Task bar from Fri 6/18/10 to Sat 6/19/10]														
672	Laboratory Analysis	10 days	Mon 6/21/10	Wed 6/30/10	671	[Task bar from Mon 6/21/10 to Wed 6/30/10]														
673	Data Evaluation	20 days	Thu 7/1/10	Wed 7/28/10	672	[Task bar from Thu 7/1/10 to Wed 7/28/10]														
674	Data Evaluation	10 days	Thu 12/23/10	Wed 1/5/11	684	[Task bar from Thu 12/23/10 to Wed 1/5/11]														
675	IAQ Evaluation Report	64 days	Thu 8/12/10	Tue 11/9/10		[Gantt bar from Thu 8/12/10 to Tue 11/9/10]														

Task  Milestone  Rolled Up Task  Rolled Up Progress  External Tasks  Group By Summary 
Progress  Summary  Rolled Up Milestone  Split  Project Summary  Deadline 

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Tronox Remediation Program Schedule January 5, 2011

ID	Task Name	Duration	Start	Finish	Predecessors	Calendar															
						Q3			Q4			Q1			Q2			Q3			
						J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
676	Prepare Report	29 days	Thu 8/12/10	Tue 9/21/10	673FS+10 days																
677	Submit to NDEP	0 days	Tue 9/21/10	Tue 9/21/10	676																
678	NDEP Review and Comments	20 days	Wed 9/22/10	Tue 10/19/10	677																
679	RTC and Revisions	10 days	Wed 10/20/10	Tue 11/2/10	678																
680	NDEP Approval	5 days	Wed 11/3/10	Tue 11/9/10	679																
681	Sampling Event	16 days	Wed 12/1/10	Wed 12/22/10																	
682	Coordination/Mobilization	4 days	Wed 12/1/10	Mon 12/6/10	673FS+89 days																
683	Field Work	2 days	Tue 12/7/10	Wed 12/8/10	682																
684	Laboratory Analysis	10 days	Thu 12/9/10	Wed 12/22/10	683																
685	IAQ Report	64 days	Thu 12/23/10	Tue 3/22/11																	
686	Prepare Report	29 days	Thu 12/23/10	Tue 2/1/11	684																
687	Submit to NDEP	0 days	Tue 2/1/11	Tue 2/1/11	686																
688	NDEP Review and Comments	20 days	Wed 2/2/11	Tue 3/1/11	687																
689	RTC and Revisions	10 days	Wed 3/2/11	Tue 3/15/11	688																
690	NDEP Approval	5 days	Wed 3/16/11	Tue 3/22/11	689																
691	Closures	288 days	Fri 7/30/10	Tue 9/6/11																	
692	Parcel C, D, F, G and H	141 days	Fri 7/30/10	Fri 2/11/11																	
693	Data Evaluation	20 days	Fri 7/30/10	Thu 8/26/10	536FS+7 days																
694	Call with NDEP	1 day	Tue 9/7/10	Tue 9/7/10	693FS+7 days																
695	Prepare Closure Report	15 days	Mon 11/22/10	Fri 12/10/10	598SS																
696	Submit CR to NDEP**	0 days	Fri 12/10/10	Fri 12/10/10	695																
697	NDEP Review and Comments**	20 days	Mon 12/13/10	Fri 1/7/11	696																
698	RTC and Revisions**	10 days	Mon 1/10/11	Fri 1/21/11	697																
699	NDEP Review and Approve CR**	15 days	Mon 1/24/11	Fri 2/11/11	698																
700	RZ-B	75 days	Wed 5/4/11	Tue 8/16/11																	
701	Prepare Closure Report	40 days	Wed 5/4/11	Tue 6/28/11	432,561FF+5 day																
702	Submit CR to NDEP	0 days	Tue 6/28/11	Tue 6/28/11	701																
703	NDEP Review and Comments	20 days	Wed 6/29/11	Tue 7/26/11	702																
704	RTC and Revisions	10 days	Wed 7/27/11	Tue 8/9/11	703																
705	NDEP Review and Approval	5 days	Wed 8/10/11	Tue 8/16/11	704																
706	RZ-C (includes Mn Tails Area)	55 days	Wed 6/22/11	Tue 9/6/11																	
707	Prepare Closure Report	20 days	Wed 6/22/11	Tue 7/19/11	454,562FF+5 day																
708	Submit CR to NDEP	0 days	Tue 7/19/11	Tue 7/19/11	707																
709	NDEP Review and Comments	20 days	Wed 7/20/11	Tue 8/16/11	708																
710	RTC and Revisions	10 days	Wed 8/17/11	Tue 8/30/11	709																
711	NDEP Review and Approval	5 days	Wed 8/31/11	Tue 9/6/11	710																
712	RZ-D (includes LOU 10)	55 days	Wed 5/11/11	Tue 7/26/11																	
713	Prepare Closure Report	20 days	Wed 5/11/11	Tue 6/7/11	487,563FF+5 day																
714	Submit CR to NDEP	0 days	Tue 6/7/11	Tue 6/7/11	713																
715	NDEP Review and Comments	20 days	Wed 6/8/11	Tue 7/5/11	714																
716	RTC and Revisions	10 days	Wed 7/6/11	Tue 7/19/11	715																
717	NDEP Review and Approval	5 days	Wed 7/20/11	Tue 7/26/11	716																
718	RZ-E	55 days	Mon 6/20/11	Fri 9/2/11																	
719	Prepare Closure Report**	20 days	Mon 6/20/11	Fri 7/15/11	514,564FF+5 day																
720	Submit CR to NDEP**	0 days	Fri 7/15/11	Fri 7/15/11	719																
721	NDEP Review and Comments**	20 days	Mon 7/18/11	Fri 8/12/11	720																



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Tronox Remediation Program Schedule January 5, 2011

ID	Task Name	Duration	Start	Finish	Predecessors	Q3			Q4			Q1			Q2			Q3			
						J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
722	RTC and Revisions**	10 days	Mon 8/15/11	Fri 8/26/11	721																
723	NDEP Review and Approval**	5 days	Mon 8/29/11	Fri 9/2/11	722																
724	Leaching/Groundwater Program	2415 days?	Thu 11/12/09	Wed 2/6/19																	
725	Vadose Zone	2240 days?	Mon 3/1/10	Fri 9/21/18																	
726	Background Analysis and Errata to Leaching Memo	32 days	Thu 9/2/10	Fri 10/15/10																	
727	Preparation and Submittal to NDEP	6 days	Thu 9/2/10	Thu 9/9/10																	
728	NDEP Review and Comment	23 days	Wed 9/8/10	Fri 10/8/10																	
729	Preparation and Submittal of Revised Memo and RTC	5 days	Mon 10/11/10	Fri 10/15/10	728																
730	Remedial Alternatives Study	85 days	Mon 11/1/10	Fri 2/25/11																	
731	Screen Technologies and Prepare Tech Memo	70 days	Mon 11/1/10	Fri 2/4/11	729																
732	NDEP Review and Comment	15 days	Mon 2/7/11	Fri 2/25/11	731																
733	Feasibility Analysis	280 days?	Mon 2/7/11	Fri 3/2/12	731																
734	Develop proposed Remedial Action Objectives	20 days	Mon 2/7/11	Fri 3/4/11	731																
735	Engineering and Economic Evaluation of Retained Technologies	30 days	Mon 2/7/11	Fri 3/18/11	731																
736	Additional sampling and analysis for design input and bench-scale studies	5 days	Mon 2/28/11	Fri 3/4/11																	
737	Bench-scale testing	65 days	Mon 3/7/11	Fri 6/3/11	736																
738	Pilot-scale testing	195 days?	Mon 6/6/11	Fri 3/2/12																	
739	Develop and submit work plan	40 days?	Mon 6/6/11	Fri 7/29/11	737																
740	NDEP review and approval	20 days	Mon 8/1/11	Fri 8/26/11	739																
741	Pilot test implementation	135 days	Mon 8/29/11	Fri 3/2/12	740																
742	Soil Flushing	2240 days?	Mon 3/1/10	Fri 9/21/18																	
743	Pilot Test Workplan	21 days	Mon 3/1/10	Mon 3/29/10																	
744	Workplan Preparation	15 days	Mon 3/1/10	Fri 3/19/10																	
745	Review Workplan (Tronox, Chartis)	6 days	Mon 3/22/10	Mon 3/29/10	744																
746	Revise and Finalize WP	61 days	Mon 3/29/10	Fri 6/18/10	745																
747	Submit WP to NDEP	0 days	Mon 3/29/10	Mon 3/29/10																	
748	NDEP Review	15 days	Tue 3/30/10	Mon 4/19/10	747																
749	Respond to Comments/WP Finalization	27 days	Tue 4/20/10	Wed 5/26/10	748																
750	NDEP Review and Approval	17 days	Thu 5/27/10	Fri 6/18/10	749																
751	Pilot Test Implementation	2190 days?	Mon 5/10/10	Fri 9/21/18																	
752	Contractor Selection	10 days	Sat 6/19/10	Tue 6/29/10	750																
753	Notice to Proceed	0 days	Tue 6/29/10	Tue 6/29/10	750,752																
754	Column Studies	136 days	Mon 5/10/10	Mon 11/8/10																	
755	Laboratory Studies	104 days	Mon 5/10/10	Thu 9/23/10																	
756	Collect Soil and Water Materials	5 days	Mon 5/10/10	Fri 5/14/10																	
757	Analyze Soil and Water Materials	15 days	Mon 7/5/10	Fri 7/23/10	753																
758	Prepare Soil Columns	25 days	Fri 7/9/10	Thu 8/12/10	753FS+4 days																
759	Conduct soil column tests	20 days	Fri 8/13/10	Thu 9/9/10	758																
760	Complete Post Test Analyses	10 days	Fri 9/10/10	Thu 9/23/10	759																
761	Column Study Tech Memo Submittal to NDEP	11 days	Fri 9/24/10	Fri 10/8/10	760																
762	NDEP Review Column Study Tech Memo	21 days	Mon 10/11/10	Mon 11/8/10	761																
763	Soil Flushing Pilot Test (In Discussion w/NDEP)	265 days?	Mon 9/20/10	Fri 9/23/11																	
764	Work Plan and Permitting	100 days?	Mon 9/20/10	Fri 2/4/11																	
765	Prepare and submit Work Plan	15 days	Mon 9/20/10	Fri 10/8/10																	
766	NDEP Review and Response to Work Plan	21 days	Mon 10/11/10	Mon 11/8/10	765																
767	Prepare and submit Work Plan addendum	4 days	Tue 11/9/10	Fri 11/12/10	766																

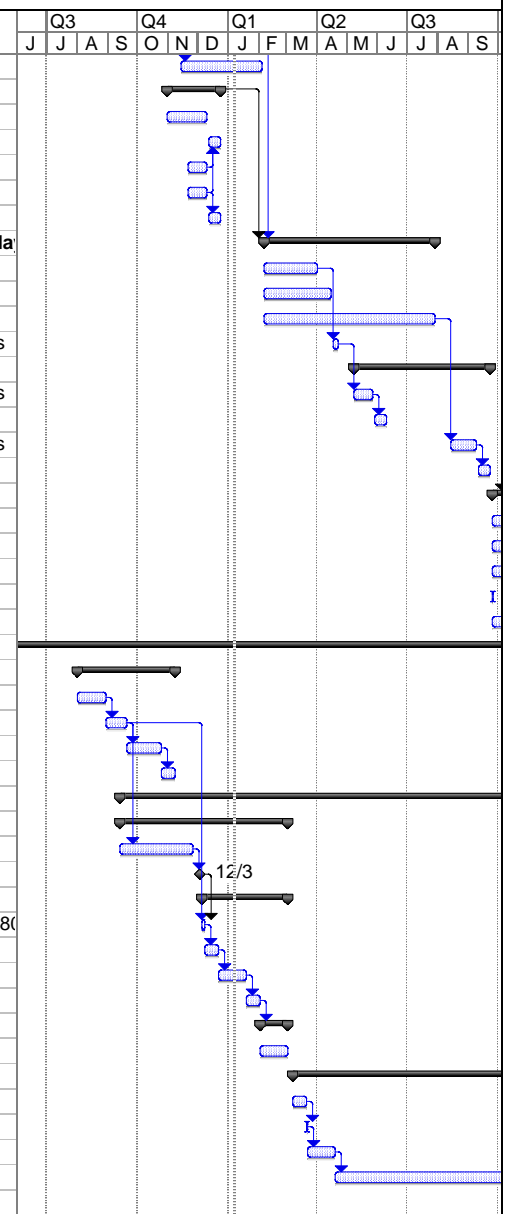
Task Milestone Rolled Up Task Rolled Up Progress External Tasks Group By Summary

Progress Summary Rolled Up Milestone Split Project Summary Deadline

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 ** Pending BMI policy tasks - may be subject to change

Tronox Remediation Program Schedule January 5, 2011

ID	Task Name	Duration	Start	Finish	Predecessors	Q3			Q4			Q1			Q2			Q3			
						J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
768	NDEP review & approval	60 days?	Mon 11/15/10	Fri 2/4/11	767																
769	Installation and Pre-test sampling (Pending results of RAS)	40 days	Mon 11/1/10	Fri 12/24/10																	
770	Design, contracting, and procurement	30 days	Mon 11/1/10	Fri 12/10/10																	
771	Drip irrigation line installation	10 days	Mon 12/13/10	Fri 12/24/10	772,773																
772	Monitoring and leachate well installation	15 days	Mon 11/22/10	Fri 12/10/10																	
773	Pre-Test soil and water sampling	15 days	Mon 11/22/10	Fri 12/10/10																	
774	Sample analysis	10 days	Mon 12/13/10	Fri 12/24/10	773																
775	Pilot Test Implementation (Pending results of RAS)	125 days	Mon 2/7/11	Fri 7/29/11	731,769FS+5 da																
776	Addition of flushing water	40 days	Mon 2/7/11	Fri 4/1/11																	
777	Leachate monitoring	50 days	Mon 2/7/11	Fri 4/15/11																	
778	Groundwater monitoring	125 days	Mon 2/7/11	Fri 7/29/11																	
779	Post-test soil sampling	5 days	Mon 4/18/11	Fri 4/22/11	776FS+10 days																
780	Reporting	100 days	Mon 5/9/11	Fri 9/23/11																	
781	Prepare and submit preliminary technical memo	15 days	Mon 5/9/11	Fri 5/27/11	779FS+10 days																
782	NDEP review	10 days	Mon 5/30/11	Fri 6/10/11	781																
783	Prepare and submit final technical memo	20 days	Mon 8/15/11	Fri 9/9/11	778FS+10 days																
784	NDEP review	10 days	Mon 9/12/11	Fri 9/23/11	783																
785	Full Scale Design, Installation, and Operation (In Disc w/NDEP)	1825 days	Mon 9/26/11	Fri 9/21/18	763																
786	GWETS evaluation	127 days	Mon 9/26/11	Tue 3/20/12																	
787	Permitting	110 days	Mon 9/26/11	Fri 2/24/12																	
788	Install drip line	15 days	Mon 9/26/11	Fri 10/14/11																	
789	Start-up	1 day	Mon 9/26/11	Mon 9/26/11																	
790	Operation	1825 days	Mon 9/26/11	Fri 9/21/18																	
791	In-Situ Bioremediation of Groundwater	2320 days?	Thu 3/25/10	Wed 2/6/19																	
792	Workplan	71 days	Mon 8/2/10	Mon 11/8/10																	
793	Workplan Preparation and Submittal to NDEP	21 days	Mon 8/2/10	Mon 8/30/10																	
794	NDEP Review and Prelim Approval (Bench Scale Studies)	15 days	Tue 8/31/10	Mon 9/20/10	793																
795	Respond to Comments/WP Finalization	25 days	Tue 9/21/10	Mon 10/25/10	794																
796	NDEP Approval	10 days	Tue 10/26/10	Mon 11/8/10	795																
797	Pilot Test Implementation	286 days	Tue 9/14/10	Tue 10/18/11																	
798	Bench Scale Study	122 days	Tue 9/14/10	Wed 3/2/11																	
799	Contractor Selection	54 days	Tue 9/14/10	Fri 11/26/10	794FS-5 days																
800	Notice to Proceed	0 days	Fri 12/3/10	Fri 12/3/10	799FS+5 days																
801	Implementation	63 days	Mon 12/6/10	Wed 3/2/11																	
802	Collect Soil and Water Materials	3 days	Mon 12/6/10	Wed 12/8/10	794FS+5 days,8																
803	Analyze Soil and Water Materials	10 days	Thu 12/9/10	Wed 12/22/10	802																
804	Implement Bench Scale Study	20 days	Thu 12/23/10	Wed 1/19/11	803																
805	Complete Post Test Analyses	10 days	Thu 1/20/11	Wed 2/2/11	804																
806	Prepare Bench Scale Study Tech Memo	20 days	Thu 2/3/11	Wed 3/2/11	805																
807	Memo Preparation and Submit to NDEP	20 days	Thu 2/3/11	Wed 3/2/11																	
808	Pilot Scale Demonstration	161 days	Tue 3/8/11	Tue 10/18/11																	
809	Install Pilot Study Monitoring Locations	10 days	Tue 3/8/11	Mon 3/21/11																	
810	Sample Pilot Study Monitoring Locations	1 day	Tue 3/22/11	Tue 3/22/11	809																
811	In-Situ Reagent Injection	20 days	Wed 3/23/11	Tue 4/19/11	810																
812	Conduct Pilot Study Monitoring	130 days	Wed 4/20/11	Tue 10/18/11	811																
813	Pilot Test Evaluation Report	50 days	Wed 10/19/11	Tue 12/27/11																	















Task Milestone Rolled Up Task Rolled Up Progress External Tasks Group By Summary
 Progress Summary Rolled Up Milestone Split Project Summary Deadline

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Tronox Remediation Program Schedule January 5, 2011

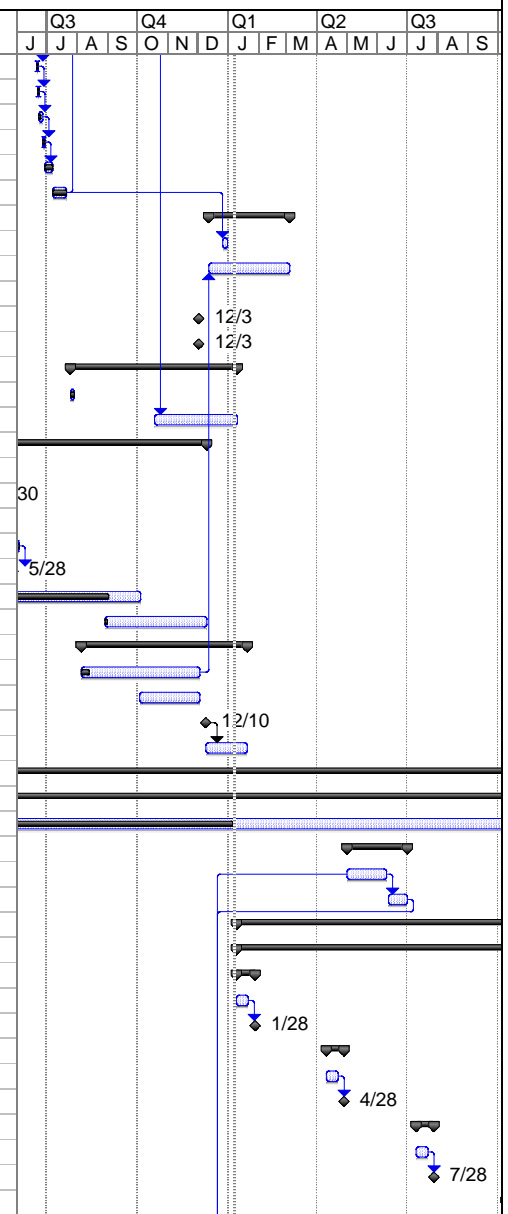
ID	Task Name	Duration	Start	Finish	Predecessors	Q3				Q4			Q1			Q2			Q3			
						J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
814	Report Preparation	20 days	Wed 10/19/11	Tue 11/15/11	812																	
815	Submit Report to NDEP	0 days	Tue 11/15/11	Tue 11/15/11	814																	
816	NDEP Review	15 days	Wed 11/16/11	Tue 12/6/11	815																	
817	Respond to Comments/Report Finalization	10 days	Wed 12/7/11	Tue 12/20/11	816																	
818	NDEP Approval	5 days	Wed 12/21/11	Tue 12/27/11	817																	
819	Full Scale Design and Installation (if required)	1856 days	Wed 12/28/11	Wed 2/6/19																		
820	Prepare Remediation Plans and Specifications	10 days	Wed 12/28/11	Tue 1/10/12	818																	
821	Review Plans and Specifications (Tronox, Chartis)	5 days	Wed 1/11/12	Tue 1/17/12	820																	
822	Issue Plans and Specifications	5 days	Wed 1/18/12	Tue 1/24/12	821																	
823	Bid Walk	1 day	Wed 1/25/12	Wed 1/25/12	822																	
824	Bid Submittal Date	5 days	Thu 1/26/12	Wed 2/1/12	823																	
825	Review Bids and Award Contract	5 days	Thu 2/2/12	Wed 2/8/12	824																	
826	Installation/Operation	1825 days	Thu 2/9/12	Wed 2/6/19	825																	
827	Capture Zone Evaluation and Reporting	252 days?	Thu 3/25/10	Fri 3/4/11																		
828	Develop Capture Zone Evaluation Work Plan	79 days	Thu 3/25/10	Wed 7/7/10																		
829	Submit CZE Work Plan	0 days	Thu 3/25/10	Thu 3/25/10																		
830	NDEP Review	6 days	Thu 3/25/10	Thu 4/1/10	829																	
831	Revise Work Plan / RTC	31 days	Fri 4/2/10	Fri 5/14/10																		
832	NDEP Review	5 days	Mon 5/17/10	Fri 5/21/10																		
833	Approval of CZE Work Plan	0 days	Mon 5/24/10	Mon 5/24/10	832																	
834	Tronox Reponse to NDEP Comments	0 days	Wed 7/7/10	Wed 7/7/10		5/24																
835	Capture enhancement and monitoring - IWF	199 days	Tue 4/20/10	Fri 1/14/11																		
836	Recovery and monitoring well installation	84 days	Tue 4/20/10	Fri 8/6/10																		
837	Install 11 piezometers	4 days	Tue 4/20/10	Sat 4/24/10																		
838	Repair M-61, M-77, M-83	2 days	Wed 5/5/10	Thu 5/6/10																		
839	P&A, Replace M-85, M-86	1 day	Mon 5/17/10	Mon 5/17/10																		
840	Install 7 UMCf monitoring wells (barrier wall transect)	4 days	Tue 5/18/10	Sun 5/23/10																		
841	Install UMCf well cluster west of M-149/M-153	2 days	Mon 5/24/10	Tue 5/25/10	840																	
842	Install 3 UMCf monitoring wells (east property boundary)	3 days	Tue 6/1/10	Thu 6/3/10	841																	
843	Install replacement well M-148A	1 day	Fri 6/4/10	Fri 6/4/10	842																	
844	Install 4" Extraction wells downgradient of barrier wall	4 days	Sat 6/5/10	Tue 6/8/10	843																	
845	Install I-AC, I-AD	2 days	Mon 6/14/10	Tue 6/15/10																		
846	Install Replacement well M-48A	1 day	Wed 6/16/10	Wed 6/16/10	845																	
847	Well development	12 days	Thu 7/22/10	Fri 8/6/10	846																	
848	Install UMCf well cluster near Mn-Tails excavation	3 days	Mon 9/27/10	Wed 9/29/10																		
849	Six UMCf monitoring well slug tests	15 days	Mon 8/16/10	Fri 9/3/10	847																	
850	Connect additional recovery wells	175 days	Mon 5/24/10	Fri 1/14/11																		
851	Prepare RFPs / Design Specifications	91 days	Mon 5/24/10	Mon 9/20/10																		
852	Select Contractor(s)	20 days	Mon 8/23/10	Fri 9/17/10																		
853	Connect 4" Barrier Wall wells	26 days	Mon 9/13/10	Mon 10/18/10																		
854	Electrical Upgrade	40 days	Mon 11/22/10	Fri 1/14/11	853FS-1 day																	
855	Connect Recovery Wells	40 days	Mon 11/22/10	Fri 1/14/11	853FS-1 day																	
856	Capture enhancement and monitoring - ARWF	190 days?	Thu 6/17/10	Fri 3/4/11																		
857	Recovery and monitoring well installation	28 days	Thu 6/17/10	Wed 7/21/10																		
858	Install Qal wells PC-141, -142, -143, -146, -147	3 days	Thu 6/17/10	Sat 6/19/10	846																	
859	Install 'Muddy Creek High' monitoring wells PC-148, -149	1 day	Sun 6/20/10	Mon 6/21/10	858																	

Task		Milestone		Rolled Up Task		Rolled Up Progress		External Tasks		Group By Summary	
Progress		Summary		Rolled Up Milestone		Split		Project Summary		Deadline	

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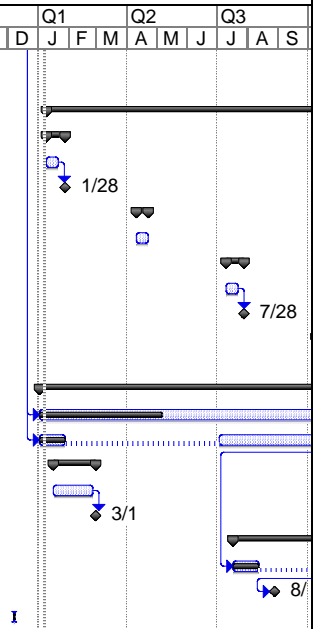
Tronox Remediation Program Schedule January 5, 2011







ID	Task Name	Duration	Start	Finish	Predecessors	Q3			Q4			Q1			Q2			Q3			
						J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
860	Install replacement well PC-134A	1 day	Tue 6/22/10	Tue 6/22/10	859																
861	Install Qal well PC-145	1 day	Wed 6/23/10	Wed 6/23/10	860																
862	Replace ART-7 with deeper recovery well ART-7B	4 days	Thu 6/24/10	Sun 6/27/10	861																
863	Install wells PC-144 and PC-150	2 days	Mon 6/28/10	Tue 6/29/10	862																
864	Install 5 replacement monitoring wells	6 days	Wed 6/30/10	Wed 7/7/10	863																
865	Well development	10 days	Thu 7/8/10	Wed 7/21/10																	
866	Connect recovery wells to system	60 days?	Mon 12/13/10	Fri 3/4/11																	
867	Plumb and connect modified well ART-7 (ON HOLD pending CZE)	5 days	Mon 12/27/10	Fri 12/31/10	865																
868	Plumb and connect new well PC-150 to GWETS	60 days?	Mon 12/13/10	Fri 3/4/11	884FS+5 days																
869	Capture enhancement and monitoring - SWF (ON HOLD)	0 days	Fri 12/3/10	Fri 12/3/10																	
870	Install three additional monitoring wells	0 days	Fri 12/3/10	Fri 12/3/10																	
871	Well development	0 days	Fri 12/3/10	Fri 12/3/10																	
872	Barrier Wall Evaluation	121 days	Mon 7/26/10	Mon 1/10/11																	
873	Backhoe pits and wall survey	4 days	Mon 7/26/10	Thu 7/29/10																	
874	Pump 'Dead Zone' wells, monitor trends (ON HOLD - recharge trenches)	60 days	Tue 10/19/10	Mon 1/10/11	853																
875	Hydrogeologic Modeling	190 days	Mon 3/29/10	Fri 12/10/10																	
876	MODFLOW Model Work Plan	25 days	Mon 3/29/10	Fri 4/30/10																	
877	Submit Work Plan to NDEP	0 days	Fri 4/30/10	Fri 4/30/10	876																
878	NDEP Review of Workplan	10 days	Mon 5/3/10	Fri 5/14/10	877																
879	Revise Work Plan / RTC	3 days	Tue 6/1/10	Thu 6/3/10																	
880	Submit Final Work Plan	0 days	Fri 5/28/10	Fri 5/28/10	879																
881	MODFLOW model development	116 days	Mon 5/3/10	Mon 10/4/10																	
882	MODFLOW model calibration and simulations	75 days	Mon 8/30/10	Fri 12/10/10																	
883	Capture reporting	120 days?	Fri 8/6/10	Thu 1/20/11																	
884	Capture analysis	86 days	Fri 8/6/10	Fri 12/3/10																	
885	Report preparation and submittal	45 days	Mon 10/4/10	Fri 12/3/10																	
886	Submit RTC to Hydrogeologic Model Inputs Memo, Errata	0 days	Fri 12/10/10	Fri 12/10/10																	
887	NDEP review and comment	30 days?	Fri 12/10/10	Thu 1/20/11	886																
888	Groundwater System OMM - 2011	682 days	Thu 11/12/09	Fri 6/15/12																	
889	Groundwater collection and treatment (Veolia)	563 days	Thu 11/12/09	Mon 1/2/12																	
890	Veolia O&M and sampling	563 days	Thu 11/12/09	Mon 1/2/12																	
891	2011 Annual Groundwater Monitoring Event	45 days	Mon 5/2/11	Fri 7/1/11																	
892	Groundwater Sampling	30 days	Mon 5/2/11	Fri 6/10/11																	
893	Laboratory Analysis	15 days	Mon 6/13/11	Fri 7/1/11	892																
894	Compliance Reporting	210 days	Mon 1/10/11	Fri 10/28/11																	
895	DMRs	210 days	Mon 1/10/11	Fri 10/28/11																	
896	Fourth Quarter 2010	15 days	Mon 1/10/11	Fri 1/28/11																	
897	Report Preparation	10 days	Mon 1/10/11	Fri 1/21/11																	
898	Agency Submittal	0 days	Fri 1/28/11	Fri 1/28/11	897FS+5 days																
899	First Quarter 2011	14 days	Mon 4/11/11	Thu 4/28/11																	
900	Report Preparation	10 days	Mon 4/11/11	Fri 4/22/11																	
901	Agency Submittal	0 days	Thu 4/28/11	Thu 4/28/11	900FS+4 days																
902	Second Quarter 2011	14 days	Mon 7/11/11	Thu 7/28/11																	
903	Report Preparation	10 days	Mon 7/11/11	Fri 7/22/11																	
904	Agency Submittal	0 days	Thu 7/28/11	Thu 7/28/11	903FS+4 days																
905	Third Quarter 2011	15 days	Mon 10/10/11	Fri 10/28/11																	









Tronox Remediation Program Schedule January 5, 2011

ID	Task Name	Duration	Start	Finish	Predecessors	Q3			Q4			Q1			Q2			Q3		
						J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
906	Report Preparation and Agency Submittal	10 days	Mon 10/10/11	Fri 10/21/11																
907	Agency Submittal	0 days	Fri 10/28/11	Fri 10/28/11	906FS+5 days															
908	UIC permit reports	205 days	Mon 1/10/11	Fri 10/21/11																
909	Fourth Quarter 2010	15 days	Mon 1/10/11	Fri 1/28/11																
910	Report Preparation	10 days	Mon 1/10/11	Fri 1/21/11																
911	Agency Submittal (with 3rd Qtr 2010 report)	0 days	Fri 1/28/11	Fri 1/28/11	910FS+5 days															
912	First Quarter 2011	10 days	Mon 4/11/11	Fri 4/22/11																
913	Report Preparation	10 days	Mon 4/11/11	Fri 4/22/11																
914	Second Quarter 2011	14 days	Mon 7/11/11	Thu 7/28/11																
915	Report Preparation	10 days	Mon 7/11/11	Fri 7/22/11																
916	Agency Submittal	0 days	Thu 7/28/11	Thu 7/28/11	915FS+4 days															
917	Third Quarter 2011	10 days	Mon 10/10/11	Fri 10/21/11																
918	Report Preparation (to be submitted w/ 4th Qtr report)	10 days	Mon 10/10/11	Fri 10/21/11																
919	Semiannual Reporting	380 days	Mon 1/3/11	Fri 6/15/12																
920	Data management	260 days	Mon 1/3/11	Fri 12/30/11	892SS															
921	Data validation	260 days	Mon 1/3/11	Fri 6/1/12	893															
922	Semiannual Performance Report (Feb)	31 days	Mon 1/17/11	Tue 3/1/11																
923	Report Preparation	30 days	Mon 1/17/11	Fri 2/25/11																
924	Submittal to NDEP	0 days	Tue 3/1/11	Tue 3/1/11	923															
925	Annual Performance Report (Aug)	240 days	Mon 7/18/11	Fri 6/15/12																
926	Report Preparation	30 days	Mon 7/18/11	Fri 6/15/12	921															
927	Report Submittal to NDEP	0 days	Mon 8/29/11	Mon 8/29/11	926															
928	All Parties Groundwater Meeting	1 day	Wed 12/8/10	Wed 12/8/10																



Task 
Milestone 
Rolled Up Task 
Rolled Up Progress 
External Tasks 
Group By Summary 

Progress 
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