

Grid Location	LOU Number	Phase B Boring No.	Sample ID Number	Sample Depths ¹ (ft. bgs)	Perchlorate (EPA 314.0)	Metals (EPA 6020)	Hex Cr (EPA 7199)	TPH-DRO/ORO (EPA 8015B)	TPH-GRO (EPA 8015B)	VOCs ² (EPA 8260B)	Wet Chemistry ³	Total Cyanide (EPA 9012A)	OCPs ⁴ (EPA 8081A)	SVOCs ⁵ (EPA 8270C)	Radio-nuclides ⁶	Dioxins/Furans ⁷	PCBs ⁸ (EPA 1668A)	Asbestos ⁹ EPA/540/R-97/028	Geo-technical Tests ¹⁰	Rationale
Borings are organized by grid location as shown on Plate A - Starting point is on the northwestern most grid in Area 3 (N-7) and ending with the southeastern most grid in Area 3 (S-8).																				
N-7	20, 21, 22, 23	SA157	SA157-0.0	0.0																Boring located to evaluate LOU 20 (Pond C-1 Associated Piping), LOU 21 (Pond Mn-1 and Associated Piping), LOU 22 (WC-West Associated Piping), and LOU 23 (WC-East Associated Piping). Located at piping junction from all LOUs at highest release potential location (manhole and junction).
N-7	20, 21, 22, 23		SA157-0.5	0.5	X	X	X			X	X		X	X	X	X				
N-7	20, 21, 22, 23		SA157-10	10	X	X	X			X	X		Hold	X	X					
N-7	20, 21, 22, 23		SA157-20	20	X	X	X			X	X		Hold	X	X					
N-7	20, 21, 22, 23		SA157-30	30	X	X	X			X	X		Hold	X	X					
N-7	20, 21, 22, 23		SA157-40	40	X	X	X			X	X		X	X	X					
N-8	21, 24, 46	RSAN8	RSAN8-0.0	0.0																X
N-8	21, 24, 46		RSAN8-0.5	0.5	X	X	X	X		X	X		X	X	X	X				
N-8	21, 24, 46		RSAN8-10	10	X	X	X	X		X	X		Hold	X	X				X	
N-8	21, 24, 46		RSAN8-20	20	X	X	X	X		X	X		Hold	X	X					
N-8	21, 24, 46		RSAN8-30	30	X	X	X	X		X	X		Hold	X	X					
N-8	21, 24, 46		RSAN8-40	40	X	X	X	X		X	X		X	X	X					
N-8	21, 24, 46	SA139	SA139-0.0	0.0																X
N-8	21, 24, 46		SA139-0.5	0.5	X	X	X			X	X		X		X	X				
N-8	21, 24, 46		SA139-10	10	X	X	X			X	X		Hold		X					
N-8	21, 24, 46		SA139-20	20	X	X	X			X	X		Hold		X					
N-8	21, 24, 46		SA139-30	30	X	X	X			X	X		Hold		X					
N-8	21, 24, 46		SA139-40	40	X	X	X			X	X		X		X					
N-8	21, 24, 46	SA160	SA160-0.0	0.0																X
N-8	21, 24, 46		SA160-0.5	0.5	X	X	X			X	X		X		X	X				
N-8	21, 24, 46		SA160-10	10	X	X	X			X	X		Hold		X					
N-8	21, 24, 46		SA160-20	20	X	X	X			X	X		Hold		X					
N-8	21, 24, 46		SA160-30	30	X	X	X			X	X		Hold		X					
N-8	21, 24, 46		SA160-40	40	X	X	X			X	X		X		X					
O-6	34W	SA39	SA39-0.0	0.0																X
O-6	34W		SA39-0.5	0.5	X	X	X	X		X	X		X		X	X				
O-6	34W		SA39-10	10	X	X	X	X		X	X		Hold		X					
O-6	34W		SA39-20	20	X	X	X	X		X	X		Hold		X					
O-6	34W		SA39-30	30	X	X	X	X		X	X		Hold		X					
O-6	34W		SA39-40	40	X	X	X	X		X	X		X		X					
O-7	24, 46	RSAO7	RSAO7-0.0	0.0																X
O-7	24, 46		RSAO7-0.5	0.5	X	X	X	X		X	X		X	X	X	X				
O-7	24, 46		RSAO7-10	10	X	X	X	X		X	X		Hold		X					
O-7	24, 46		RSAO7-20	20	X	X	X	X		X	X		Hold		X					
O-7	24, 46		RSAO7-30	30	X	X	X	X		X	X		Hold		X					
O-7	24, 46		RSAO7-40	40	X	X	X	X		X	X		X	X	X					
O-7	34W, 60, 20, 22, 23	SA178	SA178-0.0	0.0																X
O-7	34W, 60, 20, 22, 23		SA178-0.5	0.5	X	X	X			X	X	X	X	X	X	X				
O-7	34W, 60, 20, 22, 23		SA178-10	10	X	X	X			X	X	X	Hold	X	X					
O-7	34W, 60, 20, 22, 23		SA178-20	20	X	X	X			X	X	X	Hold	X	X					
O-7	34W, 60, 20, 22, 23		SA178-30	30	X	X	X			X	X	X	Hold	X	X					
O-7	34W, 60, 20, 22, 23		SA178-40	40	X	X	X			X	X	X	Hold	X	X					
O-7	24, 46	SA52	SA52-0.0	0.0																X
O-7	24, 46		SA52-0.5	0.5	X	X	X			X	X		X		X	X				
O-7	24, 46		SA52-10	10	X	X	X			X	X		Hold		X				X	
O-7	24, 46		SA52-20	20	X	X	X			X	X		Hold		X					
O-7	24, 46		SA52-30	30	X	X	X			X	X		Hold		X					
O-7	24, 46		SA52-40	40	X	X	X			X	X		X		X					
O-7	24, 46	SA149	SA149-0.0	0.0																X
O-7	24, 46		SA149-0.5	0.5	X	X	X			X	X		X		X	X				
O-7	24, 46		SA149-10	10	X	X	X			X	X		Hold		X					
O-7	24, 46		SA149-20	20	X	X	X			X	X		Hold		X					
O-7	24, 46		SA149-30	30	X	X	X			X	X		Hold		X					
O-7	24, 46		SA149-40	40	X	X	X			X	X		X		X					
O-8	24, 46	RSAO8	RSAO8-0.0	0.0																X
O-8	24, 46		RSAO8-0.5	0.5	X	X	X	X		X	X		X		X	X				
O-8	24, 46		RSAO8-10	10	X	X	X	X		X	X		Hold		X					
O-8	24, 46		RSAO8-20	20	X	X	X	X		X	X		Hold		X					
O-8	24, 46		RSAO8-30	30	X	X	X	X		X	X		Hold		X					
O-8	24, 46		RSAO8-40	40	X	X	X	X		X	X		X		X					
O-8	24, 46	SA108	SA108-0.0	0.0																X
O-8	24, 46		SA108-0.5	0.5	X	X	X			X	X		X		X	X				
O-8	24, 46		SA108-10	10	X	X	X			X	X		Hold		X					
O-8	24, 46		SA108-20	20	X	X	X			X	X		Hold		X					
O-8	24, 46		SA108-30	30	X	X	X			X	X		Hold		X					
O-8	24, 46		SA108-40	40	X	X	X			X	X		X		X					
O-8	24, 46, 60	SA141	SA141-0.0	0.0																X
O-8	24, 46, 60		SA141-0.5	0.5	X	X	X			X	X		X		X	X				
O-8	24, 46, 60		SA141-10	10	X	X	X			X	X		Hold		X					
O-8	24, 46, 60		SA141-20	20	X	X	X			X	X		Hold		X					

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Borings are organized by grid location as shown on Plate A - Starting point is on the northwestern most grid in Area 3 (N-7) and ending with the southeastern most grid in Area 3 (S-8).																				
O-8	24, 46, 60		SA141-30	30	X	X	X			X	X		Hold		X					
O-8	24, 46, 60		SA141-40	40	X	X	X			X	X		X		X					
O-8	24, 46, 60	SA142	SA142-0.0	0.0														X		Boring located to evaluate LOU 24 (Mn Tailings Pile Area), LOU 46 (Former Old Main Cooling Tower and Recirculation Lines), and LOU 60 (Acid Drain System). Located within LOU 24, just downgradient of LOU 46 and adjacent to LOU 60 drain pipe to evaluate likely release locations from all three LOUs.
O-8	24, 46, 60		SA142-0.5	0.5	X	X	X			X	X		X		X	X				
O-8	24, 46, 60		SA142-10	10	X	X	X			X	X		Hold		X					
O-8	24, 46, 60		SA142-20	20	X	X	X			X	X		Hold		X					
O-8	24, 46, 60		SA142-30	30	X	X	X			X	X		Hold		X					
O-8	24, 46, 60		SA142-40	40	X	X	X			X	X		X		X					
O-8	24, 46	SA143	SA143-0.0	0.0														X		Boring located to evaluate LOU 24 (Mn Tailings Pile Area) and LOU 46 (Former Old Main Cooling Tower and Recirculation Lines). Located within LOU 42 and downgradient of LOU 46 to provide area coverage of both LOUs.
O-8	24, 46		SA143-0.5	0.5	X	X	X			X	X		X		X	X				
O-8	24, 46		SA143-10	10	X	X	X			X	X		Hold		X					
O-8	24, 46		SA143-20	20	X	X	X			X	X		Hold		X					
O-8	24, 46		SA143-30	30	X	X	X			X	X		Hold		X					
O-8	24, 46		SA143-40	40	X	X	X			X	X		X		X					
O-8	21, 24, 46, 59, 60	SA171	SA171-0.0	0.0														X		Boring located to evaluate LOU 21 (Pond Mn-1 and Associated Piping), LOU 24 (Mn Tailings Pile Area), LOU 46 (Former Old Main Cooling Tower and Recirculation Lines), LOU 59 (Storm Sewer System), and LOU 60 (Acid Drain System). Located within LOU 24 nearby LOU 46 and adjacent to LOUs 21, 59 and 60 piping at a reasonable release location to evaluate all five LOUs.
O-8	21, 24, 46, 59, 60		SA171-0.5	0.5	X	X	X			X	X		X		X	X				
O-8	21, 24, 46, 59, 60		SA171-10	10	X	X	X			X	X		Hold		X					
O-8	21, 24, 46, 59, 60		SA171-20	20	X	X	X			X	X		Hold		X					
O-8	21, 24, 46, 59, 60		SA171-30	30	X	X	X			X	X		Hold		X					
O-8	21, 24, 46, 59, 60		SA171-40	40	X	X	X			X	X		X		X					
P-6	34W	RSAP6	RSAP6-0.0	0.0														X		Boring located to evaluate LOU 34W (Historic Mn Tailings Pile Area, West). Random boring located within low spot of LOU 34W at worst case potential environmental issue location.
P-6	34W		RSAP6-0.5	0.5	X	X	X	X		X	X		X	X	X	X				
P-6	34W		RSAP6-10	10	X	X	X	X		X	X		Hold		X	X				
P-6	34W		RSAP6-20	20	X	X	X	X		X	X		Hold		X	X				
P-6	34W		RSAP6-30	30	X	X	X	X		X	X		Hold		X	X				
P-6	34W		RSAP6-40	40	X	X	X	X		X	X		X		X	X				
P-7	60, 20, 21, 22, 23	RSAP7	RSAP7-0.0	0.0														X		Boring located to evaluate LOU 20 (Pond C-1 Associated Piping Associated Piping), LOU 21 (Pond Mn-1 and Associated Piping), LOU 22 (WC-West Associated Piping), LOU 23 (WC-East Associated Piping), and LOU 60 (Acid Drain System). Random boring located within a cluster of five LOUs for area coverage of all five.
P-7	60, 20, 21, 22, 23		RSAP7-0.5	0.5	X	X	X	X		X	X	X	X		X	X				
P-7	60, 20, 21, 22, 23		RSAP7-10	10	X	X	X	X		X	X	X	Hold		X	X				
P-7	60, 20, 21, 22, 23		RSAP7-20	20	X	X	X	X		X	X	X	Hold		X	X				
P-7	60, 20, 21, 22, 23		RSAP7-30	30	X	X	X	X		X	X	X	Hold		X	X				
P-7	60, 20, 21, 22, 23		RSAP7-40	40	X	X	X	X		X	X	X	X		X	X				
P-7	48, 49, 50	SA140	SA140-0.0	0.0														X		Boring located to evaluate LOU 48 (Leach Plant Anolyte Tank), LOU 49 (Leach Plant Area Sulfuric Acid Storage Tank), and LOU 50 (Leach Plant Area Leach Tanks). Located adjacent to three LOUs at an accessible reasonable release point for all three LOUs (just down slope).
P-7	48, 49, 50		SA140-0.5	0.5	X	X	X			X	X		X		X	X				
P-7	48, 49, 50		SA140-10	10	X	X	X			X	X		Hold		X					
P-7	48, 49, 50		SA140-20	20	X	X	X			X	X		Hold		X					
P-7	48, 49, 50		SA140-30	30	X	X	X			X	X		Hold		X					
P-7	48, 49, 50		SA140-40	40	X	X	X			X	X		X		X					
P-8	47, A70	RSAP8	RSAP8-0.0	0.0														X		Boring located to evaluate LOU 47 (Leach Plant Area Mn Ore Pile Area) and Area 70 (Former U.S. Vanadium Site). Random boring located within LOU 47 and at downgradient edge of Area 70 to evaluate potential area releases from both LOU 47 and Area 70 LOUs (down slope and low spot).
P-8	47, A70		RSAP8-0.5	0.5	X	X	X	X		X	X		X	X	X	X				
P-8	47, A70		RSAP8-10	10	X	X	X	X		X	X		Hold		X	X				
P-8	47, A70		RSAP8-20	20	X	X	X	X		X	X		Hold		X	X				
P-8	47, A70		RSAP8-30	30	X	X	X	X		X	X		Hold		X	X				
P-8	47, A70		RSAP8-40	40	X	X	X	X		X	X		X		X	X				
P-8	34E, 47, 48, 51, A70	SA38	SA38-0.0	0.0														X		Boring located to evaluate LOU 34E (Historic Mn Tailings Pile Area, East), LOU 47 (Leach Plant Manganese Ore Pile Area), LOU 48 (Leach Plant Anolyte Storage Tanks), LOU 51 (Leach Plant Area Transfer Lines To/From Unit-6), and Area 70 (Former U.S. Vanadium Site). Located within and near a cluster of four LOUs and Area 70 to evaluate worst case releases from LOUs 34E, 47 and 48 and Area 70 and potential releases from LOU 51 (low area).
P-8	34E, 47, 48, 51, A70		SA38-0.5	0.5	X	X	X	X	X	X	X		X	X	X	X				
P-8	34E, 47, 48, 51, A70		SA38-10	10	X	X	X	X	X	X	X		Hold		X	X				
P-8	34E, 47, 48, 51, A70		SA38-20	20	X	X	X	X	X	X	X		Hold		X	X				
P-8	34E, 47, 48, 51, A70		SA38-30	30	X	X	X	X	X	X	X		Hold		X	X				
P-8	34E, 47, 48, 51, A70		SA38-40	40	X	X	X	X	X	X	X		X		X	X				
Q-7	20, 22, 23, 48, 50, 60	RSAQ7	RSAQ7-0.0	0.0														X		Boring located to evaluate LOU 20 (Pond C-1 Associated Piping), LOU 22 (WC-West Associated Piping), LOU 23 (WC-East Associated Piping), LOU 48 (Leach Plant Anolyte Storage Tanks), LOU 50 (Leach Plant Area Leach Tanks), and LOU 60 (Acid Drain System). Random boring located within area piping for all five LOUs for likely release points.
Q-7	20, 22, 23, 48, 50, 60		RSAQ7-0.5	0.5	X	X	X	X		X	X	X	X		X	X				
Q-7	20, 22, 23, 48, 50, 60		RSAQ7-10	10	X	X	X	X		X	X	X	Hold		X	X				
Q-7	20, 22, 23, 48, 50, 60		RSAQ7-20	20	X	X	X	X		X	X	X	Hold		X	X				
Q-7	20, 22, 23, 48, 50, 60		RSAQ7-30	30	X	X	X	X		X	X	X	Hold		X	X				
Q-7	20, 22, 23, 48, 50, 60		RSAQ7-40	40	X	X	X	X		X	X	X	X		X	X				
Q-7	20, 22, 23, 61	SA36	SA36-0.0	0.0														X		Boring located to evaluate LOU 20 (Pond C-1 Associated Piping), LOU 22 (WC-West Associated Piping), LOU 23 (WC-East Associated Piping), and LOU 61 (Old Sodium Plant Decommissioning and Unit-5 Basement). Located adjacent to piping for LOUs 20, 22, and 23 for potential release points, and downgradient of LOU 61 for likely releases (accessible low area).
Q-7	20, 22, 23, 61		SA36-0.5	0.5	X	X	X	X		X	X		X		X	X				
Q-7	20, 22, 23, 61		SA36-10	10	X	X	X	X		X	X		Hold		X					
Q-7	20, 22, 23, 61		SA36-20	20	X	X	X	X		X	X		Hold		X					
Q-7	20, 22, 23, 61		SA36-30	30	X	X	X	X		X	X		Hold		X					
Q-7	20, 22, 23, 61		SA36-40	40	X	X	X	X		X	X		X		X					
Q-8	47, 48, 59	RSAQ8	RSAQ8-0.0	0.0														X		Boring located to evaluate LOU 47 (Leach Plant Mn Ore Pile Area), LOU 48 (Leach Plant Anolyte Storage Tanks), and LOU 59 (Storm Sewer System). Random boring in accessible location within LOUs 47 and 48 and nearby LOU 59 for accessible area coverage and a low spot.
Q-8	47, 48, 59		RSAQ8-0.5	0.5	X	X	X	X		X	X		X	X	X	X				
Q-8	47, 48, 59		RSAQ8-10	10	X	X	X	X		X	X		Hold		X	X			X	
Q-8	47, 48, 59		RSAQ8-20	20	X	X	X	X		X	X		Hold		X	X				
Q-8	47, 48, 59		RSAQ8-30	30	X	X	X	X		X	X		Hold		X	X				
Q-8	47, 48, 59		RSAQ8-40	40	X	X	X	X		X	X		X		X	X				

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Borings are organized by grid location as shown on Plate A - Starting point is on the northwestern most grid in Area 3 (N-7) and ending with the southeastern most grid in Area 3 (S-8).																				
Q-8	47, 48, 51, 59,A70	SA37	SA37-0.0	0.0																Boring located to evaluate LOU 51 (Mn Leach Plant Area Transfer Lines), LOU 47 (Leach Plant Area Mn Ore Pile Area), LOU 48 (Leach Plant Sewer System), LOU 59 (Storm Sewer System), and Area 70 (Former U.S. Vanadium Site). Located at an accessible location at low spot of LOUs 47,48 and 51 and Area 70 for worst case releases and nearby LOU 59 pipeline for possible releases.
Q-8	47, 48, 51, 59,A70		SA37-0.5	0.5	X	X	X	X	X	X	X		X	X	X	X				
Q-8	47, 48, 51, 59,A70		SA37-10	10	X	X	X	X	X	X	X		Hold	X	X					
Q-8	47, 48, 51, 59,A70		SA37-20	20	X	X	X	X	X	X	X		Hold	X	X					
Q-8	47, 48, 51, 59,A70		SA37-30	30	X	X	X	X	X	X	X		Hold	X	X					
Q-8	47, 48, 51, 59,A70		SA37-40	40	X	X	X	X	X	X	X		X	X	X					
Q-8	21, 59, 60	SA174	SA174-0.0	0.0														X		Boring located to evaluate LOU 21 (Pond Mn-1 and Associated Piping), LOU 59 (Storm Sewer System), and LOU 60 (Acid Drain System). Located adjacent to all three LOU pipelines at a reasonable release location from edge of street with differential load potential.
Q-8	21, 59, 60		SA174-0.5	0.5	X	X	X			X	X		X		X	X				
Q-8	21, 59, 60		SA174-10	10	X	X	X			X	X		Hold		X					
Q-8	21, 59, 60		SA174-20	20	X	X	X			X	X		Hold		X					
Q-8	21, 59, 60		SA174-30	30	X	X	X			X	X		Hold		X					
Q-8	21, 59, 60		SA174-40	40	X	X	X			X	X		X		X					
Q-8	37, 44, 60	SA177	SA177-0.0	0.0														X		Boring located to evaluate LOU 37 (Former Satellite Accumulation Point for Unit-6), LOU 44 (Unit-6 Basement), and LOU 60 (Acid Drain System). Located at a close but accessible location to evaluate releases from LOUs 37 and 44, and adjacent to LOU 60 piping at worst case location for releases at a junction.
Q-8	37, 44, 60		SA177-0.5	0.5	X	X	X			X	X		X	X	X	X				
Q-8	37, 44, 60		SA177-10	10	X	X	X			X	X		Hold	X	X					
Q-8	37, 44, 60		SA177-20	20	X	X	X			X	X		Hold	X	X					
Q-8	37, 44, 60		SA177-30	30	X	X	X			X	X		Hold	X	X					
Q-8	37, 44, 60		SA177-40	40	X	X	X			X	X		X	X	X					
R-7	40, 59, 61	RSAR7	RSAR7-0.0	0.0															X	
R-7	40, 59, 61		RSAR7-0.5	0.5	X	X	X	X		X	X		X	X	X	X				
R-7	40, 59, 61		RSAR7-10	10	X	X	X	X		X	X		Hold	X	X					
R-7	40, 59, 61		RSAR7-20	20	X	X	X	X		X	X		Hold	X	X					
R-7	40, 59, 61		RSAR7-30	30	X	X	X	X		X	X		Hold	X	X					
R-7	40, 59, 61		RSAR7-40	40	X	X	X	X		X	X		X	X	X					
R-7	40, 61	SA112	SA112-0.0	0.0															X	Boring is located to evaluate LOU 40 (PCB Transformer Spill), and LOU 61 (Old Sodium Chlorate Plant Decommissioning and Unit-5 Basement). Located in PCB transformer Spill area at visible spill location and adjacent to LOU 61 basement for area coverage.
R-7	40, 61		SA112-0.5	0.5	X	X	X	X		X	X		X		X	X				
R-7	40, 61		SA112-10	10	X	X	X	X		X	X		Hold		X					
R-7	40, 61		SA112-20	20	X	X	X	X		X	X		Hold		X					
R-7	40, 61		SA112-30	30	X	X	X	X		X	X		Hold		X					
R-7	40, 61		SA112-40	40	X	X	X	X		X	X		X		X					
R-7	33, 59, 61	SA132	SA132-0.0	0.0															X	
R-7	33, 59, 61		SA132-0.5	0.5	X	X	X	X		X	X		X		X	X				
R-7	33, 59, 61		SA132-10	10	X	X	X	X		X	X		Hold		X					
R-7	33, 59, 61		SA132-20	20	X	X	X	X		X	X		Hold		X					
R-7	33, 59, 61		SA132-30	30	X	X	X	X		X	X		Hold		X					
R-7	33, 59, 61		SA132-40	40	X	X	X	X		X	X		X		X					
R-7	40, 61	SA33	SA33-0.0	0.0															X	Boring located to evaluate LOU 40 (PCB Transformer Spill) and LOU 61 (Old Sodium Chlorate Plant Decommissioning and Unit-5 Basement). Located at an accessible exterior location adjacent to LOUs 40 and 61 (as close as upgradient utilities allow) to potential release points.
R-7	40, 61		SA33-0.5	0.5	X	X	X	X		X	X		X		X	X				
R-7	40, 61		SA33-10	10	X	X	X	X		X	X		Hold		X					
R-7	40, 61		SA33-20	20	X	X	X	X		X	X		Hold		X					
R-7	40, 61		SA33-30	30	X	X	X	X		X	X		Hold		X					
R-7	40, 61		SA33-40	40	X	X	X	X		X	X		X		X					
R-8	44	RSAR8	RSAR8-0.0	0.0															X	Boring located south of Unit-6 to evaluate LOU 44 (Unit-6 Basement) and as part of site-wide coverage for potential historical chemical use. Located as close as possible outside to LOU 44 near potential release point and for area wide coverage.
R-8	44		RSAR8-0.5	0.5	X	X	X	X		X	X		X	X	X	X				
R-8	44		RSAR8-10	10	X	X	X	X		X	X		Hold	X	X					
R-8	44		RSAR8-20	20	X	X	X	X		X	X		Hold	X	X					
R-8	44		RSAR8-30	30	X	X	X	X		X	X		Hold	X	X					
R-8	44		RSAR8-40	40	X	X	X	X		X	X		X	X	X					
R-8	33, 44, 59, 61	SA34	SA34-0.0	0.0															X	Boring located to evaluate LOU 33 (Former Sodium Perchlorate Platinum By-Product Filter), LOU 44 (Unit-6 Basement), LOU 59 (Storm Sewer System), and LOU 61 (Old Sodium Chlorate Plant Decommissioning and Unit-5 Basement). Located in between LOUs 44,33 and 61 to evaluate all three LOUs and adjacent to LOU 59 to evaluate pipeline releases.
R-8	33, 44, 59, 61		SA34-0.5	0.5	X	X	X	X		X	X		X		X	X				
R-8	33, 44, 59, 61		SA34-10	10	X	X	X	X		X	X		Hold		X				X	
R-8	33, 44, 59, 61		SA34-20	20	X	X	X	X		X	X		Hold		X					
R-8	33, 44, 59, 61		SA34-30	30	X	X	X	X		X	X		Hold		X					
R-8	33, 44, 59, 61		SA34-40	40	X	X	X	X		X	X		X		X					
S-8	n/a	RSAS8	RSAS8-0.0	0.0															X	This randomly-located boring is located to evaluate Site-wide conditions and is not associated with any specific LOU.
S-8	n/a		RSAS8-0.5	0.5	X	X	X	X		X	X		X	X	X	X				
S-8	n/a		RSAS8-10	10	X	X	X	X		X	X		Hold	X	X					
S-8	n/a		RSAS8-20	20	X	X	X	X		X	X		Hold	X	X					
S-8	n/a		RSAS8-30	30	X	X	X	X		X	X		Hold	X	X					
S-8	n/a		RSAS8-40	40	X	X	X	X		X	X		X	X	X					
Number of Borings:		33																		

Grid Location	LOU Number	Phase B Boring No.	Sample ID Number	Sample Depths ¹ (ft. bgs)	Perchlorate (EPA 314.0)	Metals (EPA 6020)	Hex Cr (EPA 7199)	TPH-DRO/ORO (EPA 8015B)	TPH-GRO (EPA 8015B)	VOCs ² (EPA 8260B)	Wet Chemistry ³	Total Cyanide (EPA 9012A)	OCPs ⁴ (EPA 8081A)	SVOCs ⁵ (EPA 8270C)	Radio-nuclides ⁶	Dioxins/Furans ⁷	PCBs ⁸ (EPA 1668A)	Asbestos ⁹ (EPA/540/R-97/028)	Geo-technical Tests ¹⁰	Rationale
Borings are organized by grid location as shown on Plate A - Starting point is on the northwestern most grid in Area 3 (N-7) and ending with the southeastern most grid in Area 3 (S-8).																				
Synthetic Precipitate Leaching Procedure (SPLP) Samples¹¹:																				
N-8	21, 24, 46	RSAN8	RSAN8-10	10	X	X	X	X		X	X			X	X				X	Soil sample collected from the southeast corner of LOU 21 (Pond Mn-1 and Associated Piping) to evaluate leaching potential of Site-related analytes from Alluvium (Qal) soils. Expected soil type: Gravelly Sand.
N-8	21, 24, 46	RSAN8	RSAN8-DD	DD* = depth (ft)	X	X	X	X		X	X			X	X				X	Optional sample - only to be collected if soil type is different than at 10 ft bgs; no sample will be collected within the capillary fringe . Contact between Qal & MCfg1 is approximately 32 feet bgs. Groundwater is expected to occur at approximately 33 feet bgs. Expected soil type: Calichified Gravel.
O-7	24, 46	SA52	SA52-10	10	X	X	X	X		X	X			X	X				X	Soil sample collected from the western portion of LOU 46 (Old Main Cooling Towers and Recirculation Lines) and LOU 24 (Mn Tailings Pile Area) to evaluate leaching potential of Site-related analytes from Alluvium (Qal) soils. Expected soil type: Gravelly Sand.
O-7	24, 46	SA52	SA52-DD	DD* = depth (ft)	X	X	X	X		X	X			X	X				X	Optional sample - only to be collected if soil type is different than at 10 ft bgs; no sample will be collected within the capillary fringe . Contact between Qal & MCfg1 is approximately 48 feet bgs. Groundwater is expected to occur at approximately 53 feet bgs. Expected soil type: Calichified Gravel.
Q-8	34E, 47, 48, 59, A70	RSAQ8	RSAQ8-10	10	X	X	X	X		X	X			X	X				X	Soil sample collected within the boundaries of LOU 47 (Leach Plant Mn Ore Pile Area) and Area 70 (Former U.S. Vanadium Site) to evaluate leaching potential of Site-related analytes. Expected soil type: Sand.
Q-8	34E, 47, 48, 59, A70	RSAQ8	RSAQ8-DD	DD* = depth (ft)	X	X	X	X		X	X			X	X				X	Optional sample - only to be collected if soil type is different than at 10 ft bgs; no sample will be collected within the capillary fringe . Contact between Qal & MCfg1 is approximately 37 feet bgs. Groundwater is expected to occur at approximately 44 feet bgs. Expected soil type: Calichified Gravel.
R-8	33, 44, 61, 59	SA34	SA34-10	10	X	X	X	X		X	X			X	X				X	Soil sample collected from between LOU 61 (Old Sodium Plant Decommissioning and Unit-5 Basement), LOU 44 (Unit-6 Basement), LOU 33 (Former Sodium Perchlorate Platinum By-Product Filter), LOU 59 (Storm Sewer System), and LOU 60 (Acid Drain System) to evaluate leaching potential of Site-related analytes. Expected soil type: Sand.
R-8	33, 44, 61, 59	SA34	SA34-DD	DD* = depth (ft)	X	X	X	X		X	X			X	X				X	Optional sample - only to be collected if soil type is different than at 10 ft bgs; no sample will be collected within the capillary fringe . Contact between Qal & MCfg1 is approximately 37 feet bgs. Groundwater is expected to occur at approximately 40 feet bgs. Expected soil type: Sand.
Number of Samples:					173	173	173	103	10	173	173	15	66	83	173	33	5	33	8	
QA/QC Samples:																				
Field Duplicates (10%)					18	18	18	11	1	18	18	2	7	9	18	4	1	4	0	
Field Blanks					1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
Equipment Rinsate Blanks					6	6	6	6	6	6	6	3	6	6	6	6	1	0	0	
Trip Blank Samples					0	0	0	0	6	6	0	0	0	0	0	0	0	0	0	
Matrix Spike (5%)					9	9	9	6	1	9	9	1	4	5	9	2	1	0	0	
Matrix Spike Duplicate (5%)					9	9	9	6	1	9	9	1	4	5	9	2	1	0	0	
Total Sample Count:					216	216	216	133	26	222	216	88	109	216	48	10	38	8		
Notes:																				
n/a	Not applicable - boring is not associated with a specific LOU but is located to evaluate soil for general area-wide coverage.																			
X	Sample will be collected and analyzed.																			
	No sample collected under Phase B sampling program.																			
DD*	Sample depth to be determined in the field where DD = sample depth (ft).																			
TPH-DRO/ORO	Total petroleum hydrocarbons - Diesel-Range Organics/Oil-Range Organics.																			
1.	The 0.5 ft bgs sample will be collected from the 0.0 to 0.5 ft bgs interval, unless the area is paved. If area is paved, samples will be collected at 0.5 feet below or from a representative depth beneath the pavement. Alternately, if an unpaved area is within a reasonable distance, the sample will be moved to the unpaved area.																			
2.	Samples for VOC analysis will be preserved in the field using sodium bisulfate (or DI water) and methanol preservatives per EPA Method 5035.																			
3.	Consists of wet chemistry parameters (including pH) listed on Table 1 of the Phase B Source Area Work Plan.																			
4.	Organochlorine Pesticides (Includes analysis for hexachlorobenzene).																			
5.	Semi-volatile Organic Compounds																			
6.	Radionuclides consists of alpha spec reporting for isotopic thorium and isotopic uranium, and Radium-226, plus Radium-228 by beta counting (per NDEP).																			
7.	Dioxins/furans will be analyzed by EPA Method 8290 for all samples. Screening reports will be provided for 90% of the samples and full data packages for 10% of the samples.																			
8.	Polychlorinated biphenyls - Sample locations will be analyzed by USEPA methods 8082 and 1668A. Concrete surfaces at these locations will also include chip and/or wipe samples per EPA Region 1 SOP for Sampling Concrete in the Field (1997).																			
9.	Soil samples for asbestos analyses will be collected from a depth of 0 to 2-inches bgs.																			
10.	Geotechnical Tests consist of: moisture content (ASTM D-2216), grain size analysis (ASTM D-422 and C117-04), Soil Dry Bulk Density (ASTM D-2937), Grain Density (ASTM D-854, Soil-Water Filled Porosity (ASTM D-2216); Vertical Hydraulic Conductivity (ASTM D-5084/USEPA 9100).																			
11.	SPLP samples will be analyzed by EPA method 1312 using two preparation methods: 1) with extraction fluid #2 (reagent water at pH 5.00±0.05), and 2) with extraction method #3 (reagent water); per NDEP.																			