

Table 4
Nedlog Property Assessment
Summary of XRF Screening Results

		Blank	NIST 2709	NIST 2711a	Tank 19	Far NE Corner	Far E Side	Far SE Corner	Tank 17 Paint	CCA Manifolds E Side	Tank 18 Floor	Center N Side	Center Building by B1A	Center S Side	Filter Bottom	Filter Side	Suspected CCA Tank	Suspected CCA Tank Floor	Suspected CCA Tank Residue	NW Side of Processing Area	W Side of Processing Area Between Tanks	SW Side of Processing Area	Tank 5 SW Side of Processing Area	Tank 5 Green Residue
Sample Type		Blank Sample	Standard Sample	Standard Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
Analyte	CAS No.	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023
		11:59:51	12:01:21	12:02:34	13:08:32	13:57:18	13:58:41	13:59:54	14:01:51	14:04:32	14:06:57	14:14:22	14:15:45	14:18:20	14:20:32	14:28:34	14:23:10	14:24:17	14:25:51	14:30:43	14:32:03	14:33:39	14:35:06	14:36:08
		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Aluminum	7429-90-5	<LOD	32,000	36,000	1,800	3,200	3,800	3,900	2,200	3,600	3,500	3,600	4,600	2,600	5,300	3,900	<LOD	4,100	<LOD	2,400	2,100	4,300	<LOD	<LOD
Antimony	7440-36-0	<LOD	<LOD	31	37	670	350	63	1,500	1,800	2,900	200	5,000	4,400	300	540	6,100	12,000	6,300	350	520	1,200	570	730
Arsenic	7440-38-2	<LOD	11	110	7,200	73,000	33,000	4,400	290,000	350,000	220,000	5,400	120,000	130,000	130,000	230,000	510,000	340,000	410,000	12,000	21,000	22,000	16,000	14,000
Barium	7440-39-3	<LOD	1,100	750	<LOD	<LOD	<LOD	<LOD	<LOD	610	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Bismuth	7440-69-9	<LOD	<LOD	<LOD	33	86	41	39	620	660	390	<LOD	<LOD	<LOD	900	360	950	490	790	<LOD	38	<LOD	<LOD	<LOD
Cadmium	7440-43-9	<LOD	<LOD	69	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	47	17	600	120	<LOD	<LOD	<LOD	93	190	30	<LOD	36	180	77
Calcium	7440-70-2	170	17,000	22,000	13,000	48,000	33,000	39,000	46,000	22,000	46,000	55,000	23,000	37,000	4,100	14,000	<LOD	11,000	<LOD	68,000	20,000	47,000	10,000	5,600
Chromium	7440-47-3	<LOD	110	64	250	370	320	190	300	290	380	95	29,000	1,200	160	210	97,000	12,000	94,000	340	440	210	<LOD	<LOD
Cobalt	7440-48-4	<LOD	<LOD	68	300	87	<LOD	<LOD	<LOD	120	<LOD	160	<LOD	150	<LOD	<LOD	2,400	<LOD	1,900	<LOD	<LOD	<LOD	1,800	2,400
Copper	7440-50-8	<LOD	33	140	410	1,000	350	620	190	240	260	360	10,000	2,800	150	110	2,600	660	2,400	550	510	1,000	400	350
Iron	7439-89-6	21	35,000	27,000	4,700	75,000	61,000	45,000	21,000	33,000	9,900	24,000	31,000	71,000	580,000	230,000	310,000	38,000	400,000	41,000	42,000	67,000	29,000	26,000
Lead	7439-92-1	<LOD	23	1,400	23	330	240	200	<LOD	<LOD	<LOD	420	2,000	2,300	<LOD	<LOD	370	1,600	4,000	510	440	1,400	2,500	1,300
Magnesium	7439-95-4	<LOD	<LOD	<LOD	<LOD	7,500	<LOD	11,000	11,000	12,000	<LOD	<LOD	12,000	<LOD	22,000	25,000	<LOD	16,000	<LOD	<LOD	6,300	<LOD	<LOD	<LOD
Manganese	7439-96-5	<LOD	510	600	37	400	340	280	280	130	110	270	570	490	1,800	470	9,200	310	10,000	390	180	380	150	76
Mercury	7439-97-6	<LOD	10	12	40	<LOD	<LOD	12	<LOD	<LOD	<LOD	29	<LOD	<LOD	<LOD	740	1,000	<LOD	<LOD	15	51	<LOD	19	25
Molybdenum	7439-98-7	<LOD	4	<LOD	4	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	7	<LOD	<LOD	25	23	24,000	25	22,000	6	<LOD	7	<LOD	<LOD
Nickel	7440-02-0	<LOD	100	33	40	42	52	36	36	230	46	29	52	110	<LOD	<LOD	28,000	54	35,000	71	45	57	32	<LOD
Niobium	7440-03-1	<LOD	4	13	<LOD	<LOD	<LOD	<LOD	11	17	<LOD	<LOD	<LOD	<LOD	12	28	130	23	120	<LOD	<LOD	<LOD	<LOD	<LOD
Phosphorus	7723-14-0	<LOD	2,700	2,900	110	590	290	450	320	240	620	2,500	510	330	460	360	<LOD	400	<LOD	540	370	460	<LOD	<LOD
Potassium	7440-02-0	180	14,000	20,000	520	3,300	3,600	3,200	290	2,400	3,600	6,400	2,900	4,100	<LOD	560	<LOD	710	<LOD	4,500	3,100	5,400	390	170
Rubidium	7440-17-7	<LOD	98	120	77	17	36	9	<LOD	13	18	40	25	29	<LOD	16	<LOD	<LOD	<LOD	60	27	39	10	3
Selenium	7782-49-2	<LOD	<LOD	<LOD	4	63	37	<LOD	210	310	220	<LOD	120	150	60	87	450	340	380	10	8	16	16	18
Silicon	7440-21-3	530,000	130,000	170,000	11,000	20,000	12,000	19,000	10,000	24,000	18,000	20,000	17,000	15,000	5,800	12,000	<LOD	8,500	<LOD	17,000	11,000	20,000	9,400	9,500
Silver	7440-22-4	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	330	600	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	550	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Strontium	7440-24-6	<LOD	240	230	160	180	140	57	140	120	140	210	240	240	<LOD	9	<LOD	49	26	250	130	300	31	21
Sulfur	7704-34-9	<LOD	470	710	2,500	6,200	3,600	4,200	1,800	6,000	3,000	5,200	2,500	16,000	1,500	3,200	<LOD	1,700	<LOD	9,400	11,000	13,000	1,900	1,200
Thallium	7440-28-0	<LOD	32	13	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	10	<LOD	<LOD	19	<LOD	
Tin	7440-31-5	<LOD	<LOD	<LOD	21	71	31	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	120	<LOD	310	<LOD	280	<LOD	19	63	<LOD	<LOD
Titanium	7440-32-6	<LOD	3,200	2,700	100,000	6,600	1,500	1,000	<LOD	430	750	970	770	1,800	<LOD	<LOD	840	<LOD	7,100	1,200	1,500	1,200	190,000	220,000
Tungsten	7440-33-7	<LOD	9	13	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	260	<LOD	170	<LOD	<LOD	<LOD	<LOD	<LOD
Uranium	7440-61-1	<LOD	4	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	6	<LOD	<LOD	110	<LOD	<LOD	<LOD	6	<LOD	6	6	8	8
Vanadium	7440-62-2	<LOD	110	65	<LOD	130	<LOD	47	<LOD	<LOD	<LOD	48	67	<LOD	<LOD	<LOD	260	<LOD	<LOD	<LOD	47	81	540	270
Yttrium	7440-65-5	<LOD	16	32	<LOD	4	5	<LOD	<LOD	<LOD	10	8	13	15	18	<LOD	<LOD	24	<LOD	4	<LOD	10	<LOD	<LOD
Zinc	7440-66-6	5	110	430	170	3,800	8,000	9,800	330	12,000	1,600	1,700	2,900	4,500	57,000	4,300	450	240	3,300	3,600	1,400	6,500	1,000	420
Zirconium	7440-67-7	4	140	310	65	44	70	30	<LOD	<LOD	21	76	29	31	<LOD	<LOD	<LOD	<LOD	150	96	52	68	120	130
Light elements	N/A	470,000	760,000	710,000	850,000	750,000	840,000	860,000	620,000	530,000	690,000	870,000	730,000	710,000	190,000	470,000	<LOD	550,000	<LOD	840,000	880,000	810,000	730,000	720,000

Notes:
All measurements collected using Olympus Vanta XRF, serial number 806363.
All measurements collected using XRF in geochemical (three-beam) mode.
All measurements collected in situ.
START rounded the raw results reported by the XRF to two significant figures based on the observed accuracy of the instrument from positive control samples (the NIST standards).
Light elements have low atomic numbers with weaker X-ray energies which cannot be measured by handheld XRF analyzers.
< Less than
B1A Building 1 arsenic air sample location
CAS Chemical Abstracts Service
CCA Chromated copper arsenate
E East
LOD Limit of detection
N North
NE Northeast
NIST National Institute of Standards and Technology
NW Northwest
PPM parts per million
S South
SE Southeast
SW Southwest
W West
XRF X-ray fluorescence