

Screening levels are defined in the attached text.

NS-SD-11			NS-SD-12		
	Max Result	Screening Value	Max Result	Screening Value	
Arsenic	15.3	12	14.2	12	
Beryllium	1.1	0.67	0.94	0.67	
Thallium	1.8	0.31	1.2	0.31	
Vanadium	48.6	38	48.9	38	
		NSD2000-11 sedi		NSD2000-12 sedi	
Np-237	0.34	0.271	0.48	0.271	
U-238	3.55	1.71	2.56	1.71	

NSD2000-16 SPT		
	Max Result	Screening Value
Np-237	0.34	0.271
U-238	7.32	1.71

NS-SD-05		
	Max Result	Screening Value
Beryllium	0.82	0.67
Thallium	1.2	0.31

NS-SD-09		
	Max Result	Screening Value
Arsenic	32.7	12
Beryllium	1.9	0.67
Iron	50900	28000
Manganese	1780	1500
Thallium	2.8	0.31
Vanadium	74.7	38
		NSD2000-09 sedi
Np-237	0.32	0.271

NS-SD-04		
	Max Result	Screening Value
Beryllium	0.96	0.67
Thallium	0.87	0.31
Vanadium	38.9	38

NS-SD-06		
	Max Result	Screening Value
Beryllium	0.71	0.67
Thallium	0.75	0.31
		NSD2000-06 SPT
Np-237	0.28	0.271
U-238	4.34	1.71
		NSD2000-06 sedi
U-238	4.29	1.71

NS-SD-01		
	Max Result	Screening Value
Beryllium	1.1	0.67
Thallium	0.75	0.31
Vanadium	40.7	38
		NSD2000-01 bank
Np-237	0.36	0.271
U-238	3	1.71

NS-SD-07		
	Max Result	Screening Value
Thallium	0.56	0.31
		NSD2000-07 SPT
U-238	2.12	1.71

NSD028		
	Max Result	Screening Value
Cs-137	2.38	0.49
Mercury	0.58	0.419
Total PCBs	0.5	0.127
Np-237	2.68	0.271
Th-230	205	14.9
U-235	0.82	0.395
U-238	16.2	1.71

NS-SD-02		
	Max Result	Screening Value
Beryllium	0.81	0.67

NSD030		
	Max Result	Screening Value
Cs-137	1.04	0.49
Mercury	0.47	0.419
Np-237	1.22	0.271
Silver	19.6	17.5
Th-230	193	14.9
Total PCBs	1.4	0.127
Uranium	234	8.69
U-235	0.68	0.395
U-238	14.4	1.71

NSD025		
	Max Result	Screening Value
Total PCBs	0.85	0.127

NSD027		
	Max Result	Screening Value
Cs-137	4.16	0.49
Mercury	0.9	0.419
Np-237	2.65	0.271
Pu-239	20.6	11.5
Th-230	497	14.9
Total PCBs	20	0.127
U-234	31.2	19.8
U-235	1.94	0.395
U-238	40	1.71

NSD026		NSD029		
	Max Result	Screening Value	Max Result	Screening Value
Cs-137	3.51	0.49	3.91	0.49
Mercury	1.49	0.419	0.69	0.419
Np-237	2.41	0.271	3	0.271
Pu-239	15.9	11.5	15.1	11.5
Th-230	410	14.9	203	14.9
Total PCBs	1.9	0.127	9.7	0.127
U-235	1.06	0.395	0.79	0.395
U-238	20.3	1.71	16	1.71

LEGEND

- DETECT > SCREENING LEVELS
- SAMPLE STATION
- DETECT > ACTION LEVELS (no samples were detected above action levels)
- RU - SECTION 3
- RU - SECTION 4
- RU - SECTION 5
- *RU = REMEDIATION UNIT

UNITS

METALS--mg/kg
RADIONUCLIDES--pCi/g

300 0 300 600 Feet



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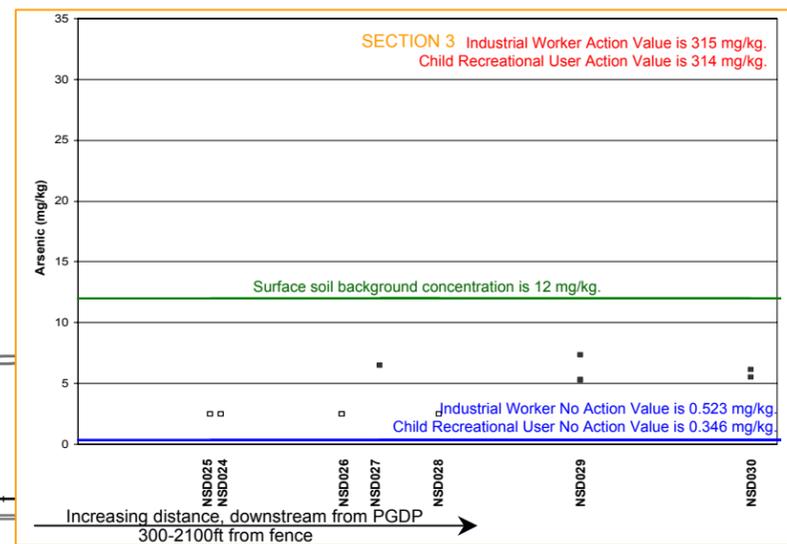
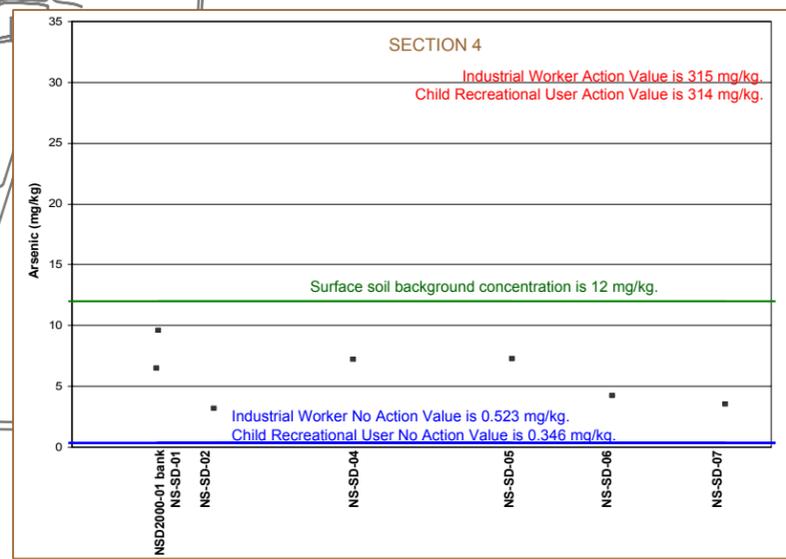
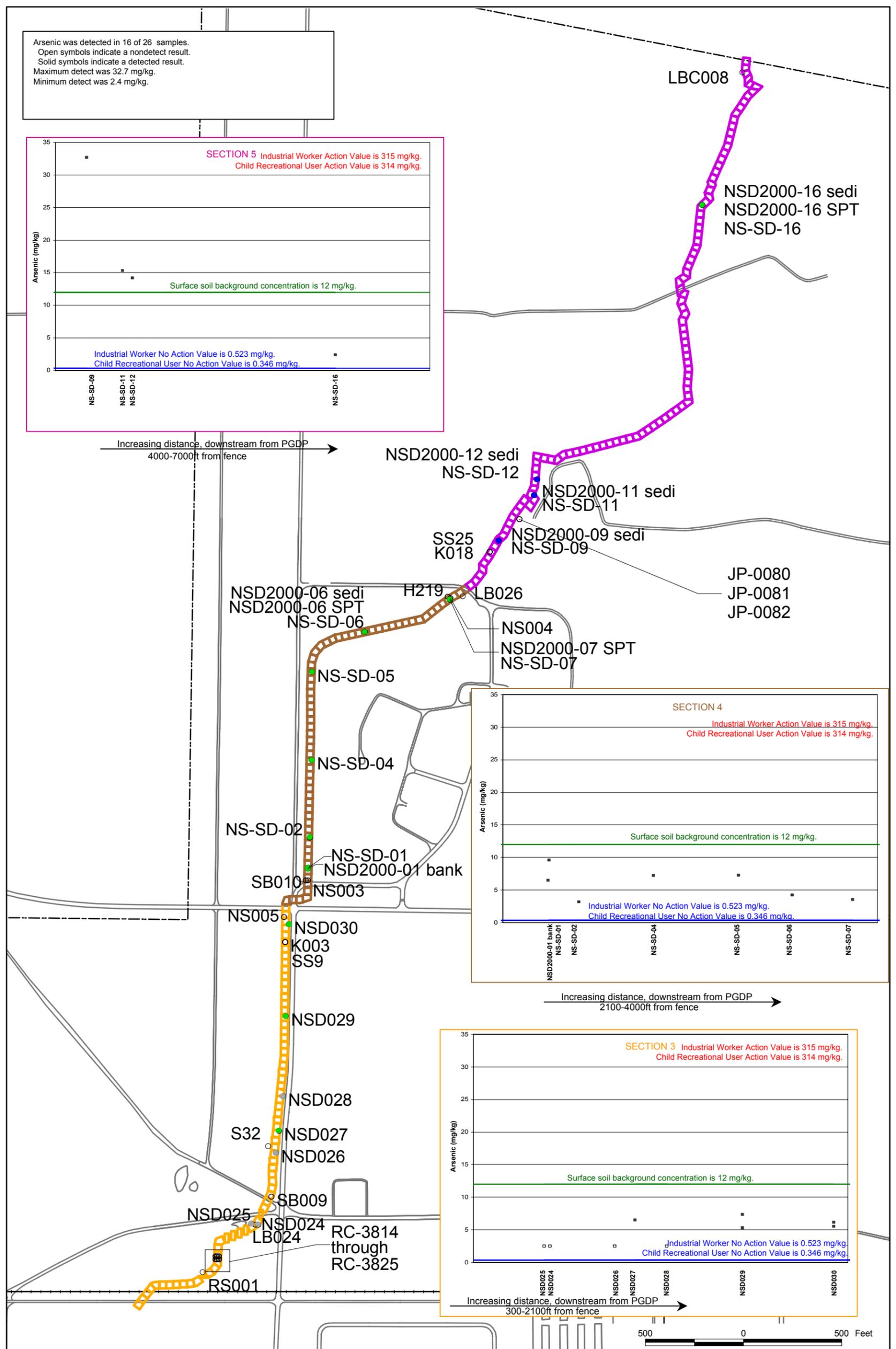
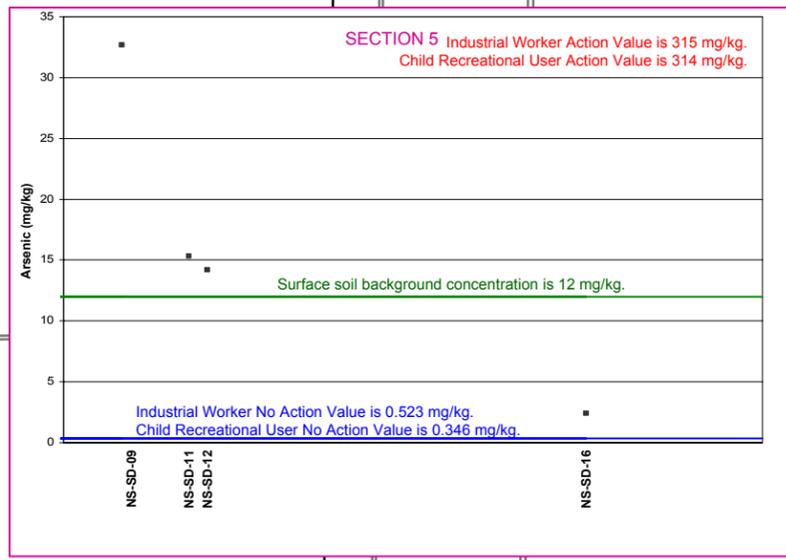
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Fig. 1. Locations in Sections 3-5 of the NSDD where one or more sampling results have COC concentration greater than screening levels.

Arsenic was detected in 16 of 26 samples.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 32.7 mg/kg.
 Minimum detect was 2.4 mg/kg.



LEGEND

- SAMPLE STATION (NOT ANALYZED FOR COPC)
- RU - SECTION 3
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- NON-DETECT
- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE < SCREENING LEVELS
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- NOTE: Screening levels are the surface soil background concentration and the risk-based no action level for the industrial worker.
- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > ACTION LEVELS (no samples were detected above action levels)

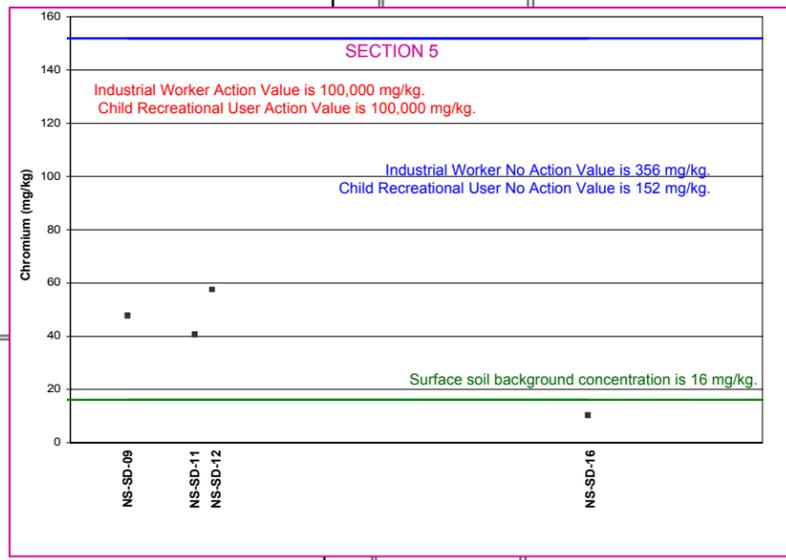
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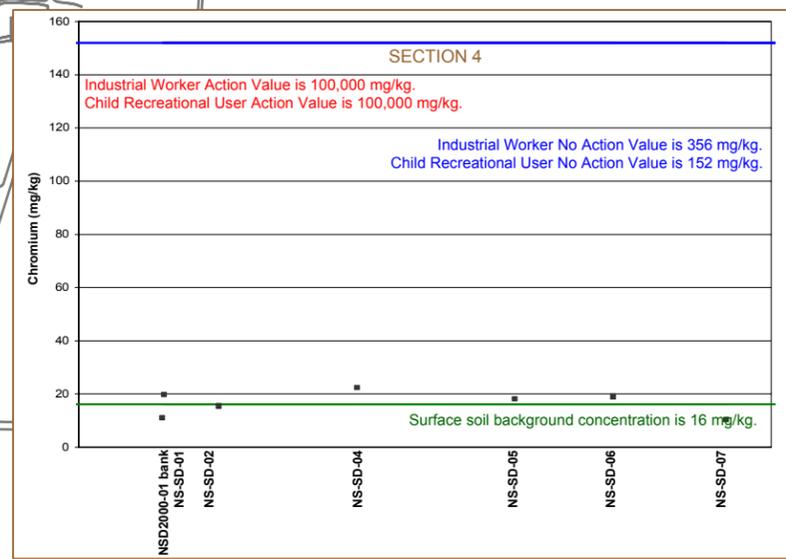
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Fig. 2. Locations in Sections 3-5 of the NSDD where one or more sampling results have a arsenic concentration greater than screening levels.

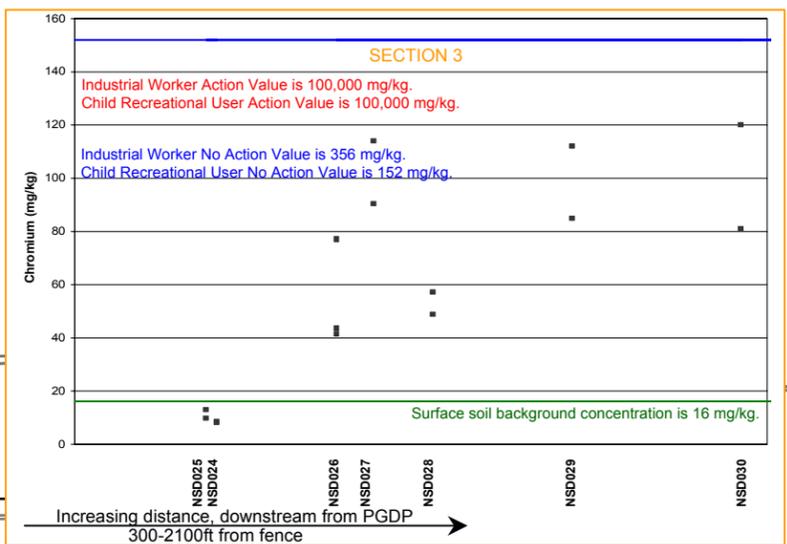
Chromium was detected in 26 of 26 samples.
 Maximum detect was 120 mg/kg.
 Minimum detect was 8.09 mg/kg.



Increasing distance, downstream from PGDP
 4000-7000ft from fence



Increasing distance, downstream from PGDP
 2100-4000ft from fence



Increasing distance, downstream from PGDP
 300-2100ft from fence

500 0 500 Feet

LEGEND

- SAMPLE STATION (NOT ANALYZED FOR COPC)
- RU - SECTION 3
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- RU - SECTION 5
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- NON-DETECT
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- NOTE: Screening levels are the surface soil background concentration and the risk-based no action level for the industrial worker.
- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > ACTION LEVELS (no samples were detected above action levels)

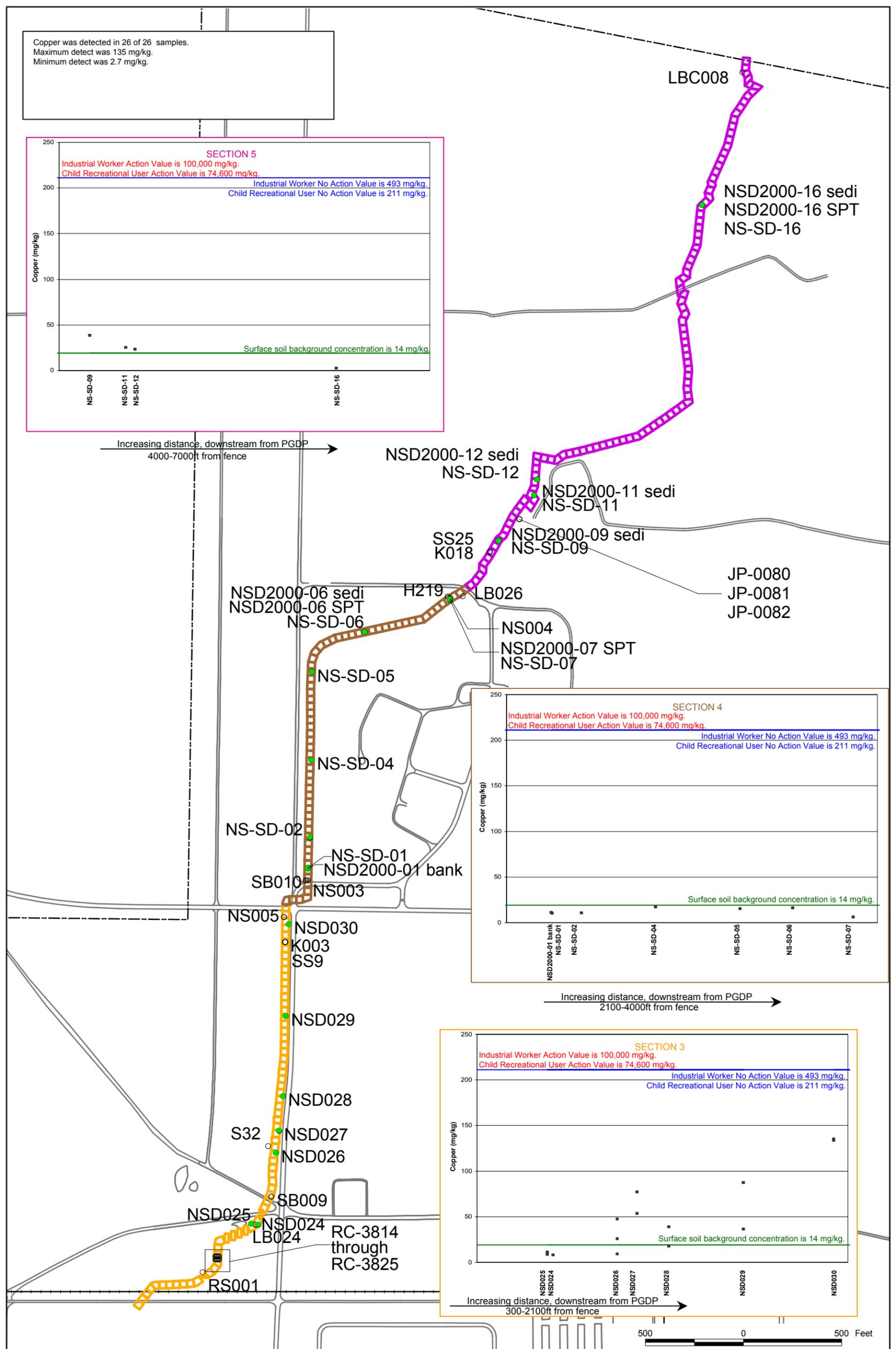
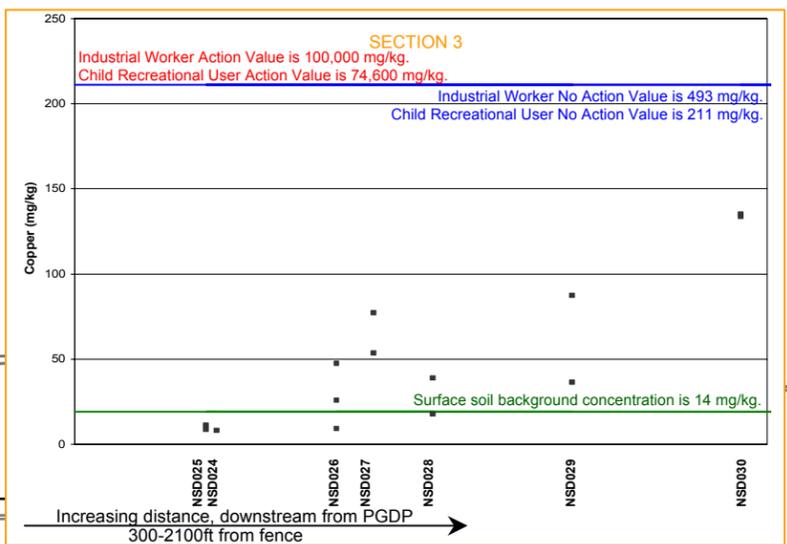
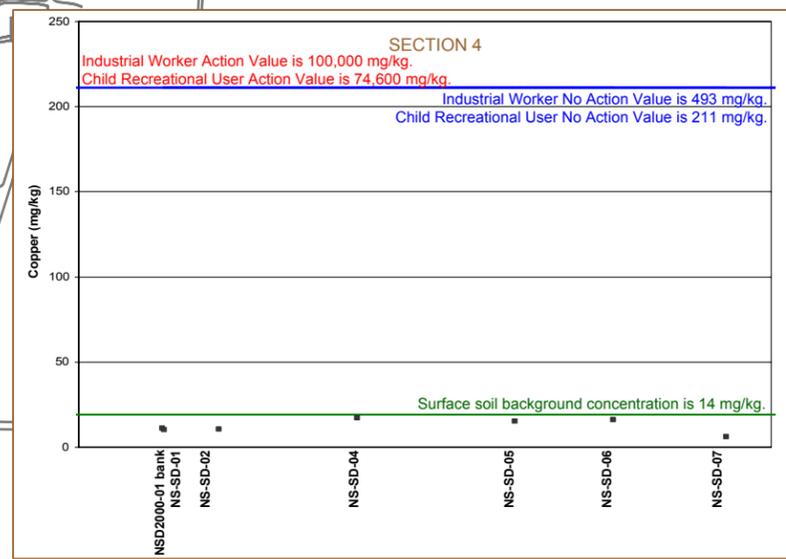
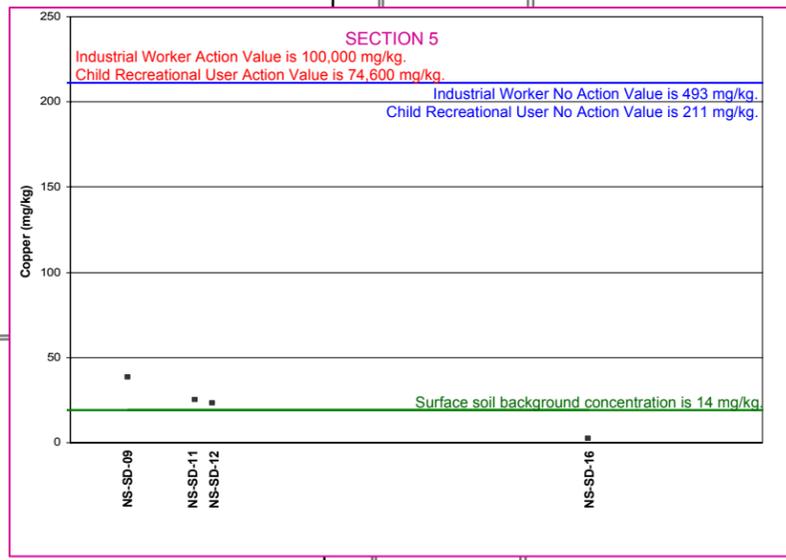
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Fig. 4. Locations in Sections 3-5 of the NSDD where one or more sampling results have a chromium concentration greater than screening levels.

Copper was detected in 26 of 26 samples.
 Maximum detect was 135 mg/kg.
 Minimum detect was 2.7 mg/kg.



LEGEND

- SAMPLE STATION (NOT ANALYZED FOR COPC)
- RU - SECTION 3
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- *RU = REMEDIATION UNIT
- NON-DETECT
- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE < SCREENING LEVELS
- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > SCREENING LEVELS
- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > ACTION LEVELS (no samples were detected above action levels)

NOTE: Screening levels are the surface soil background concentration and the risk-based no action level for the industrial worker.

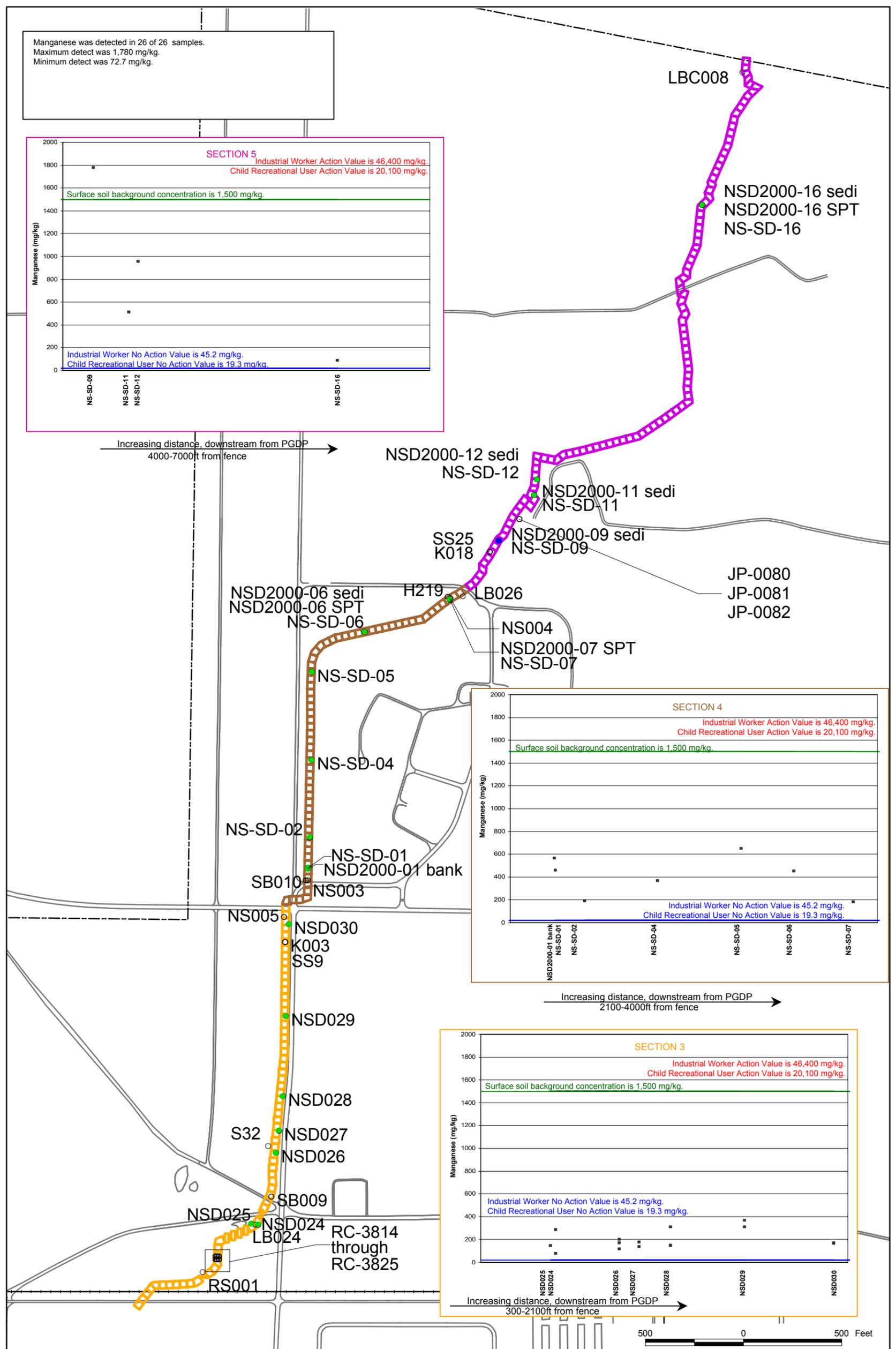
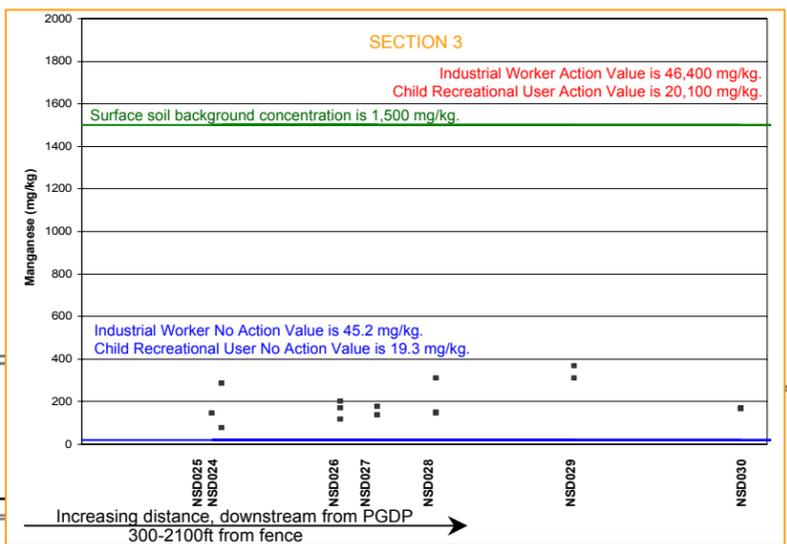
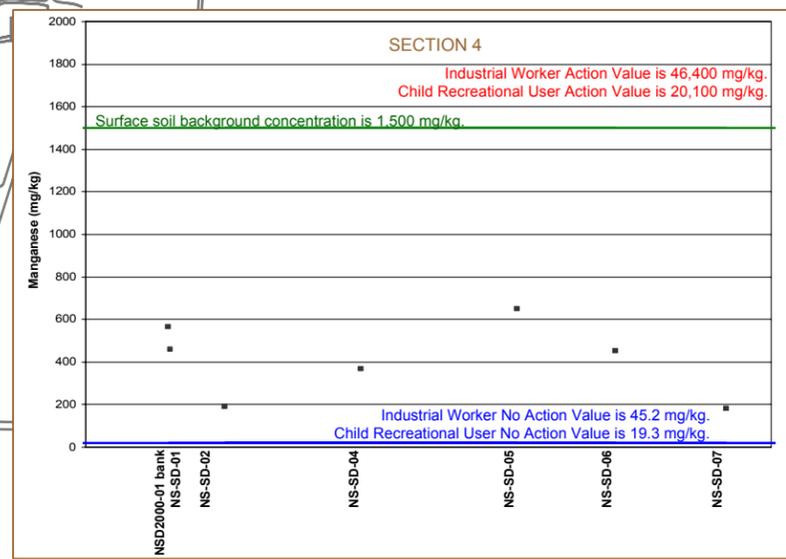
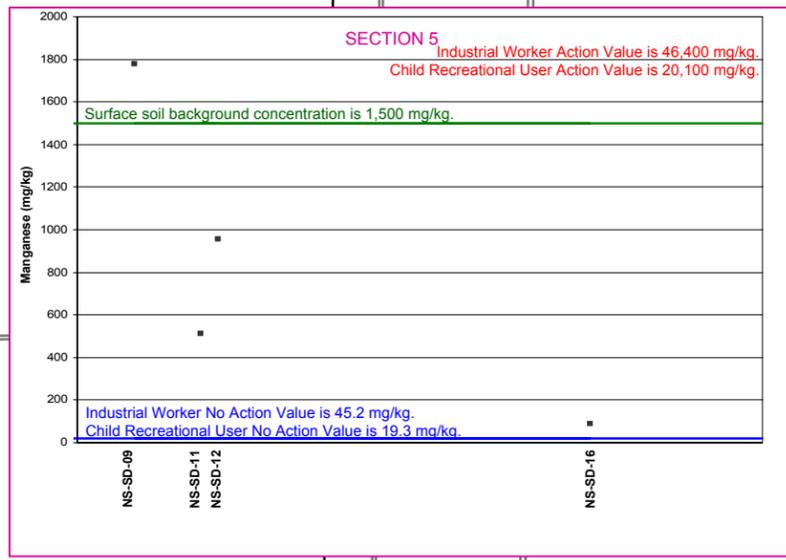
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Fig. 5. Locations in Sections 3-5 of the NSDD where one or more sampling results have a copper concentration greater than screening levels.

Manganese was detected in 26 of 26 samples.
 Maximum detect was 1,780 mg/kg.
 Minimum detect was 72.7 mg/kg.



LEGEND

- SAMPLE STATION (NOT ANALYZED FOR COPC)
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- RU - SECTION 4
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- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > ACTION LEVELS (no samples were detected above action levels)

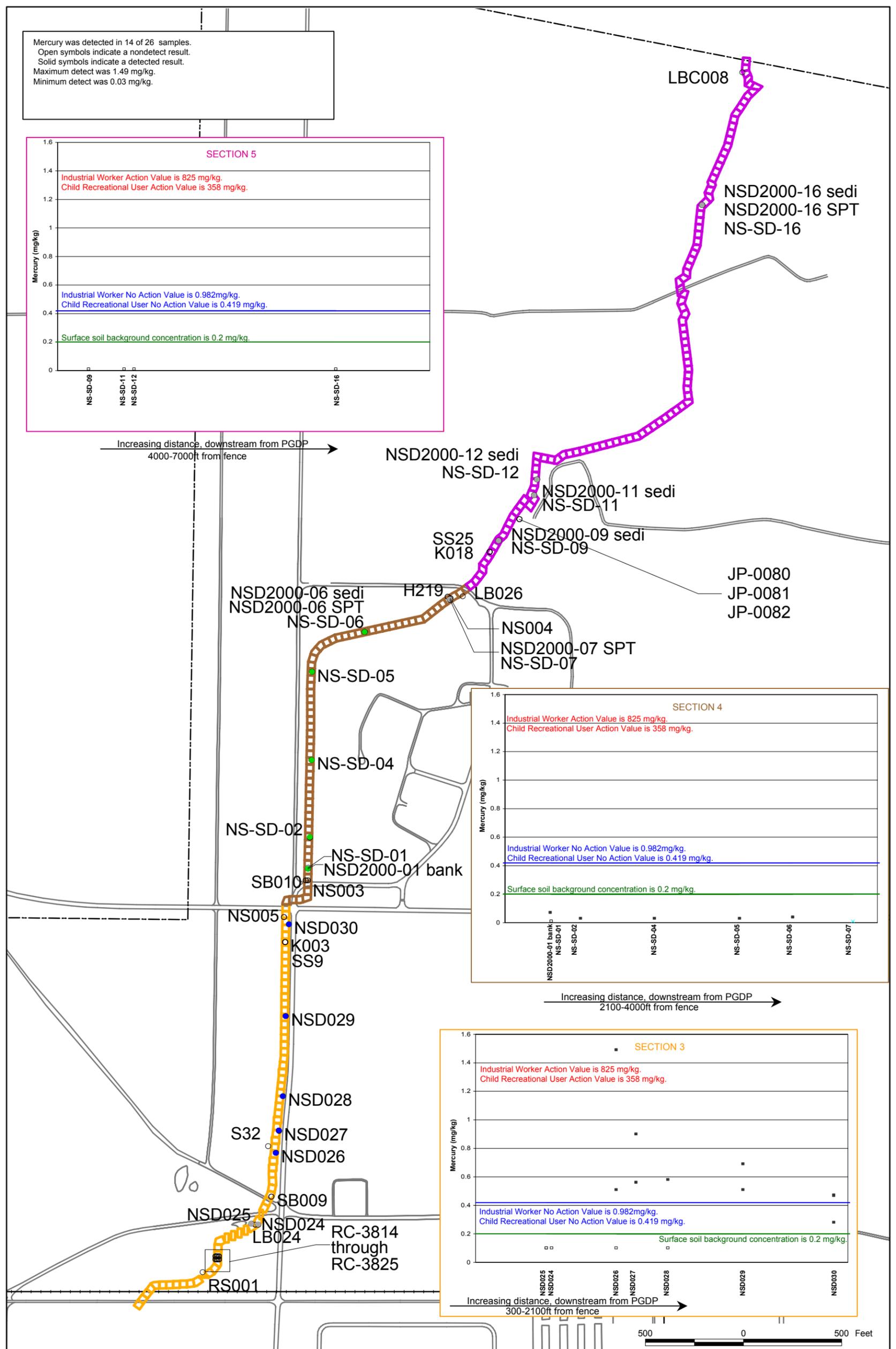
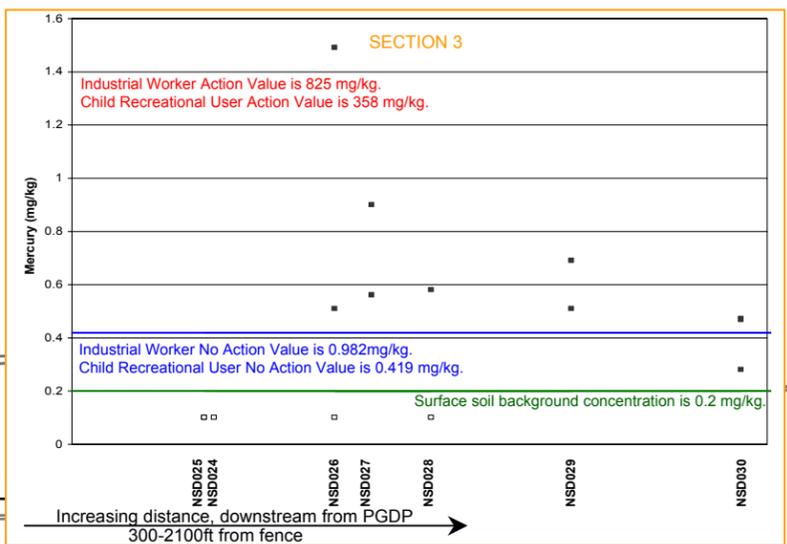
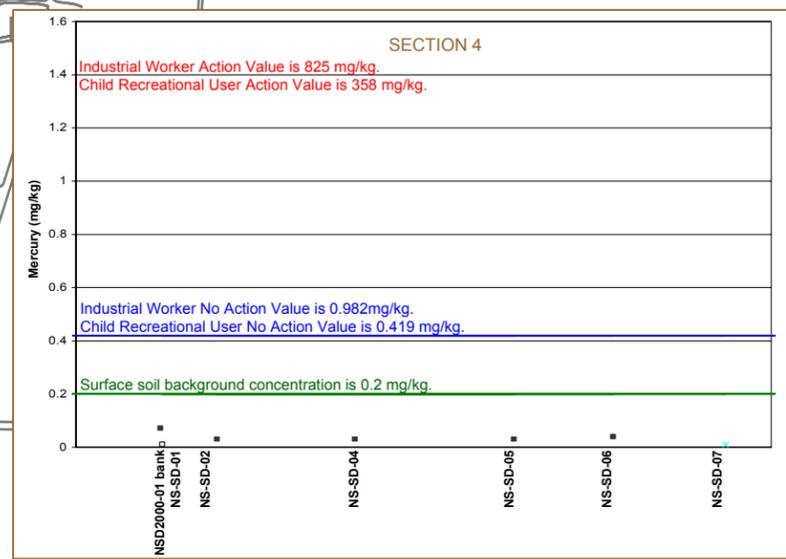
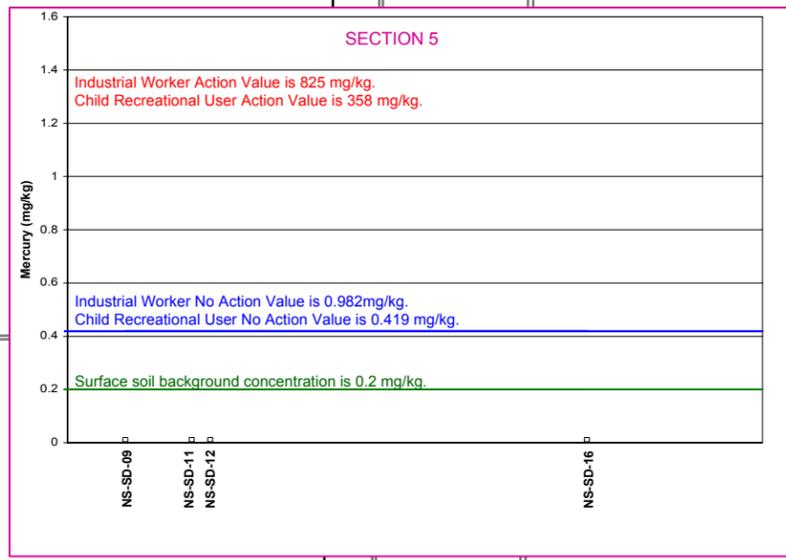
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Fig. 7. Locations in Sections 3-5 of the NSDD where one or more sampling results have a manganese concentration greater than screening levels.

Mercury was detected in 14 of 26 samples.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 1.49 mg/kg.
 Minimum detect was 0.03 mg/kg.



LEGEND

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- RU - SECTION 3
- RU - SECTION 4
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NOTE: Screening levels are the surface soil background concentration and the risk-based no action level for the industrial worker.

● DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > ACTION LEVELS (no samples were detected above action levels)

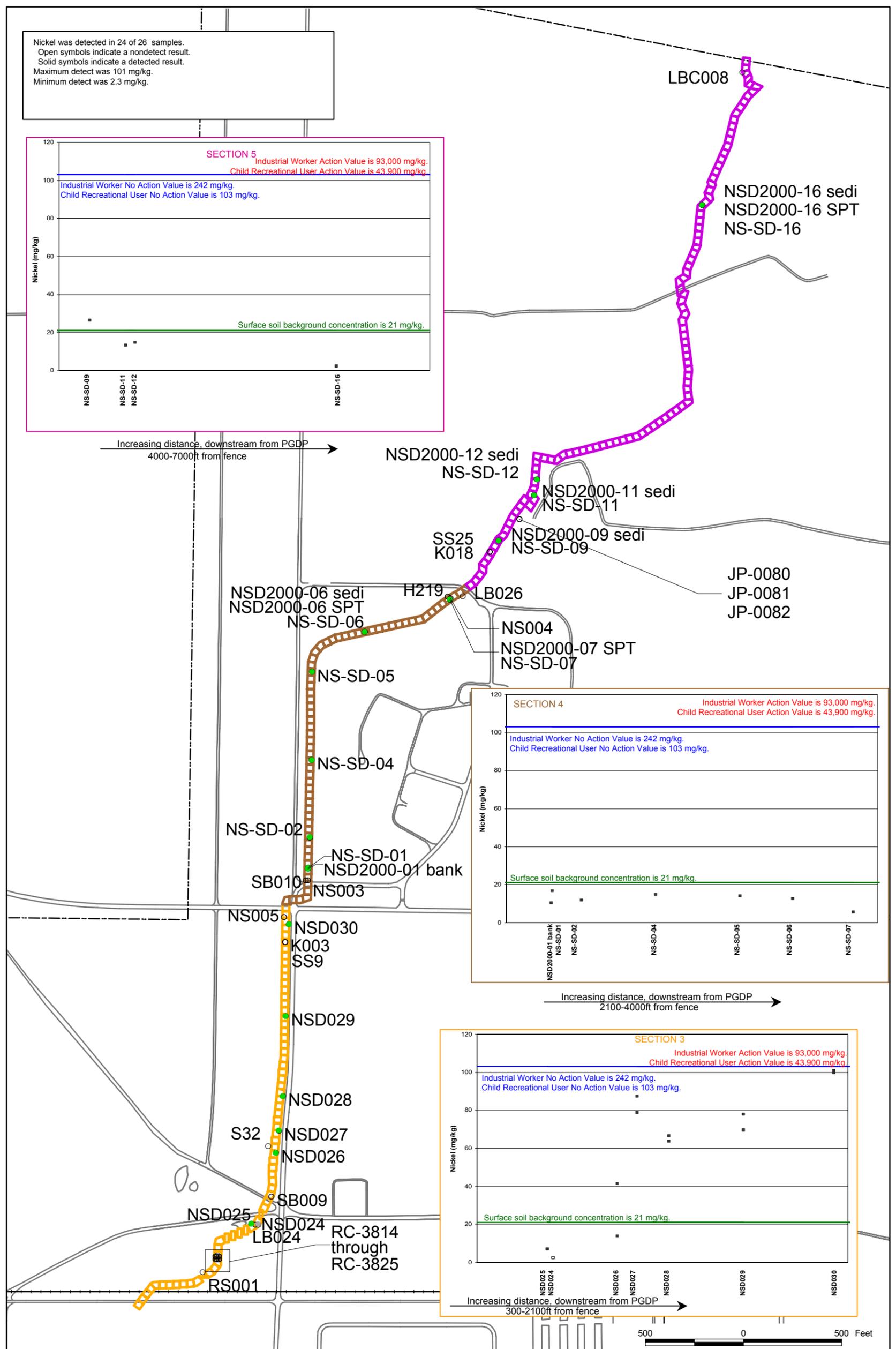
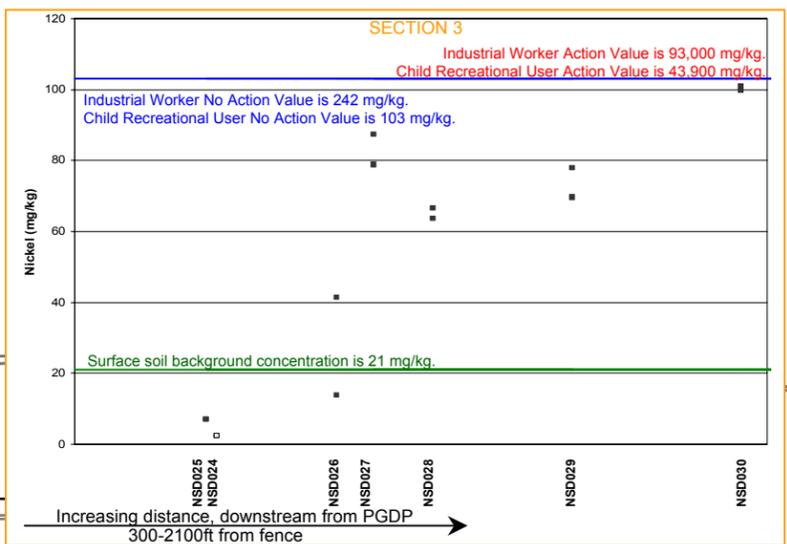
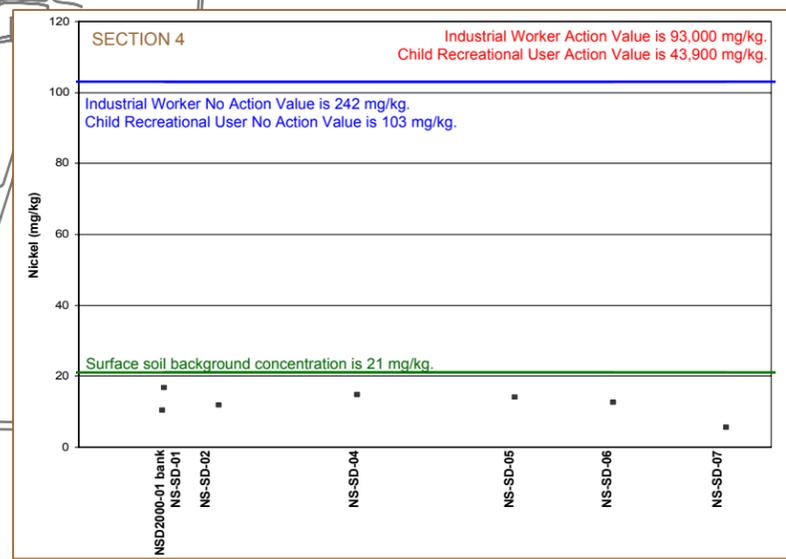
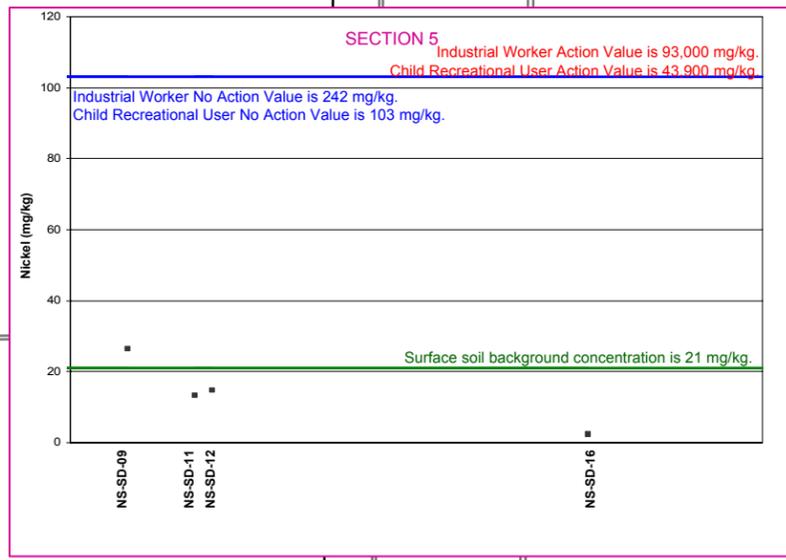
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Fig. 8. Locations in Sections 3-5 of the NSDD where one or more sampling results have a mercury concentration greater than screening levels.

Nickel was detected in 24 of 26 samples.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 101 mg/kg.
 Minimum detect was 2.3 mg/kg.



LEGEND

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NOTE: Screening levels are the surface soil background concentration and the risk-based no action level for the industrial worker.

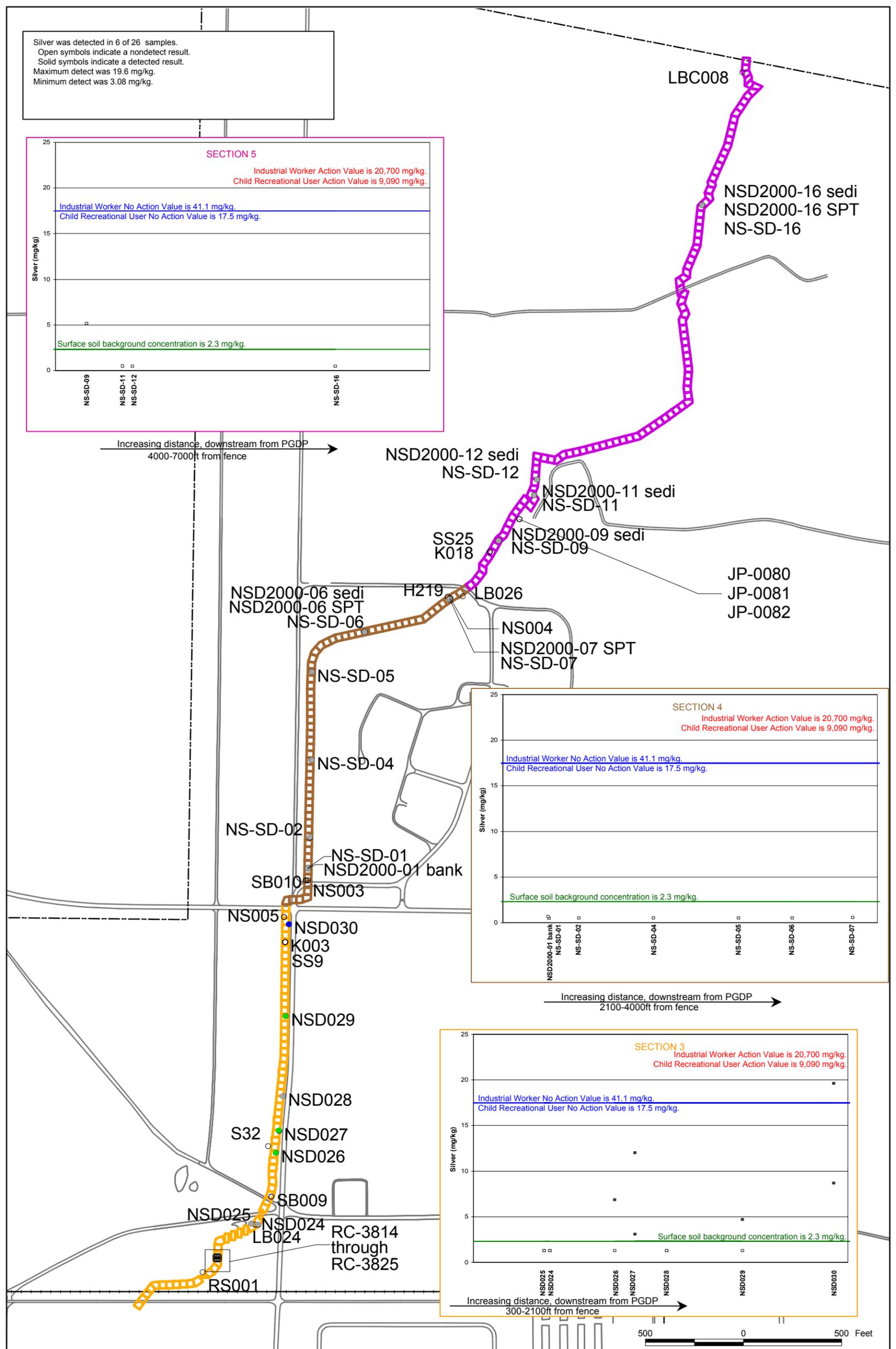
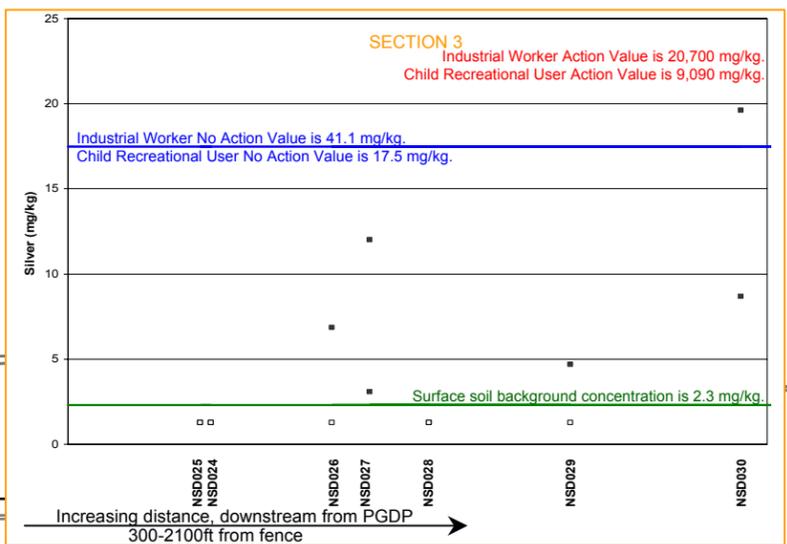
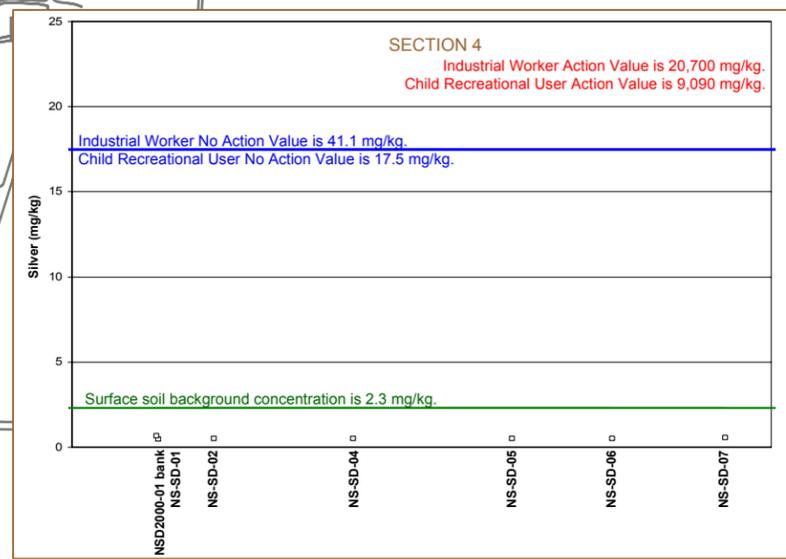
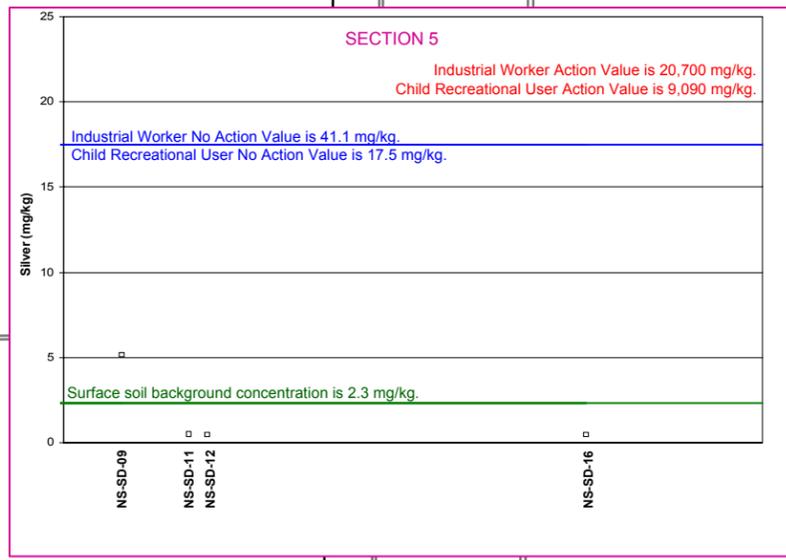
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Fig. 9. Locations in Sections 3-5 of the NSDD where one or more sampling results have a nickel concentration greater than screening levels.

Silver was detected in 6 of 26 samples.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 19.6 mg/kg.
 Minimum detect was 3.08 mg/kg.



LEGEND

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NOTE: Screening levels are the surface soil background concentration and the risk-based no action level for the industrial worker.

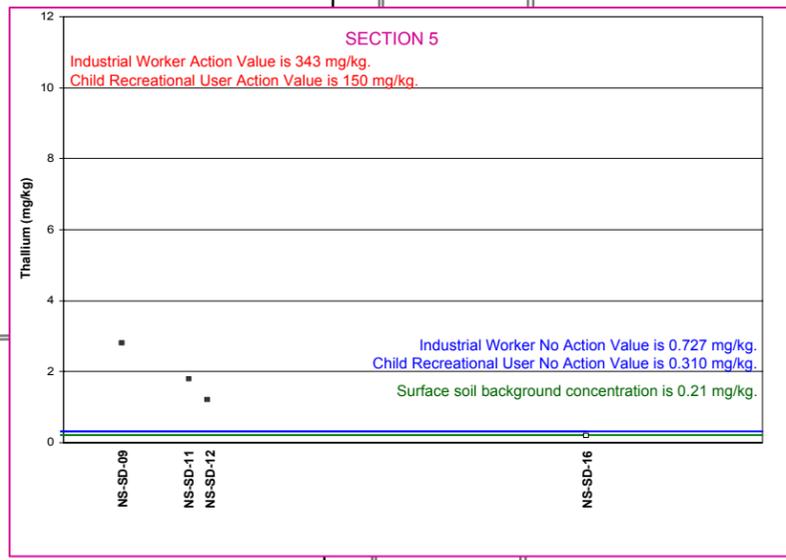
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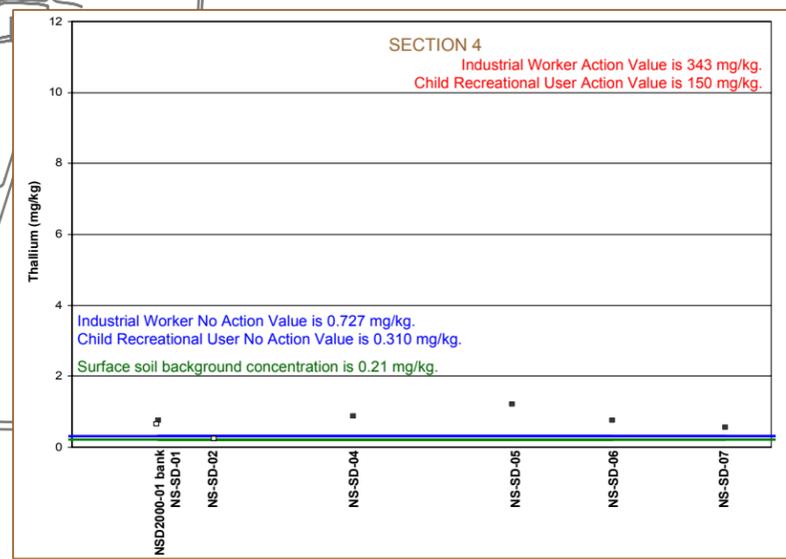
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Fig. 10. Locations in Sections 3-5 of the NSDD where one or more sampling results have a silver concentration greater than screening levels.

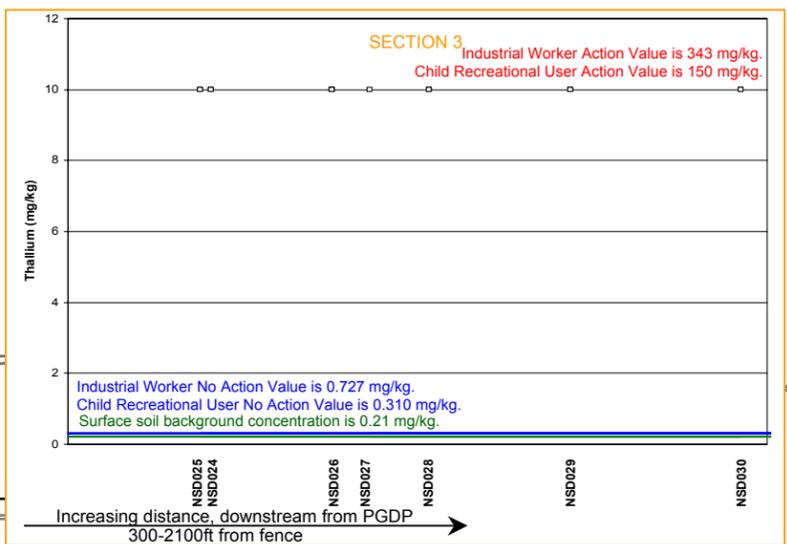
Thallium was detected in 8 of 26 samples.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 2.8 mg/kg.
 Minimum detect was 0.56 mg/kg.



Increasing distance, downstream from PGDP
 4000-7000ft from fence



Increasing distance, downstream from PGDP
 2100-4000ft from fence



Increasing distance, downstream from PGDP
 300-2100ft from fence

500 0 500 Feet

LEGEND

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- RU - SECTION 5
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- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > ACTION LEVELS (no samples were detected above action levels)

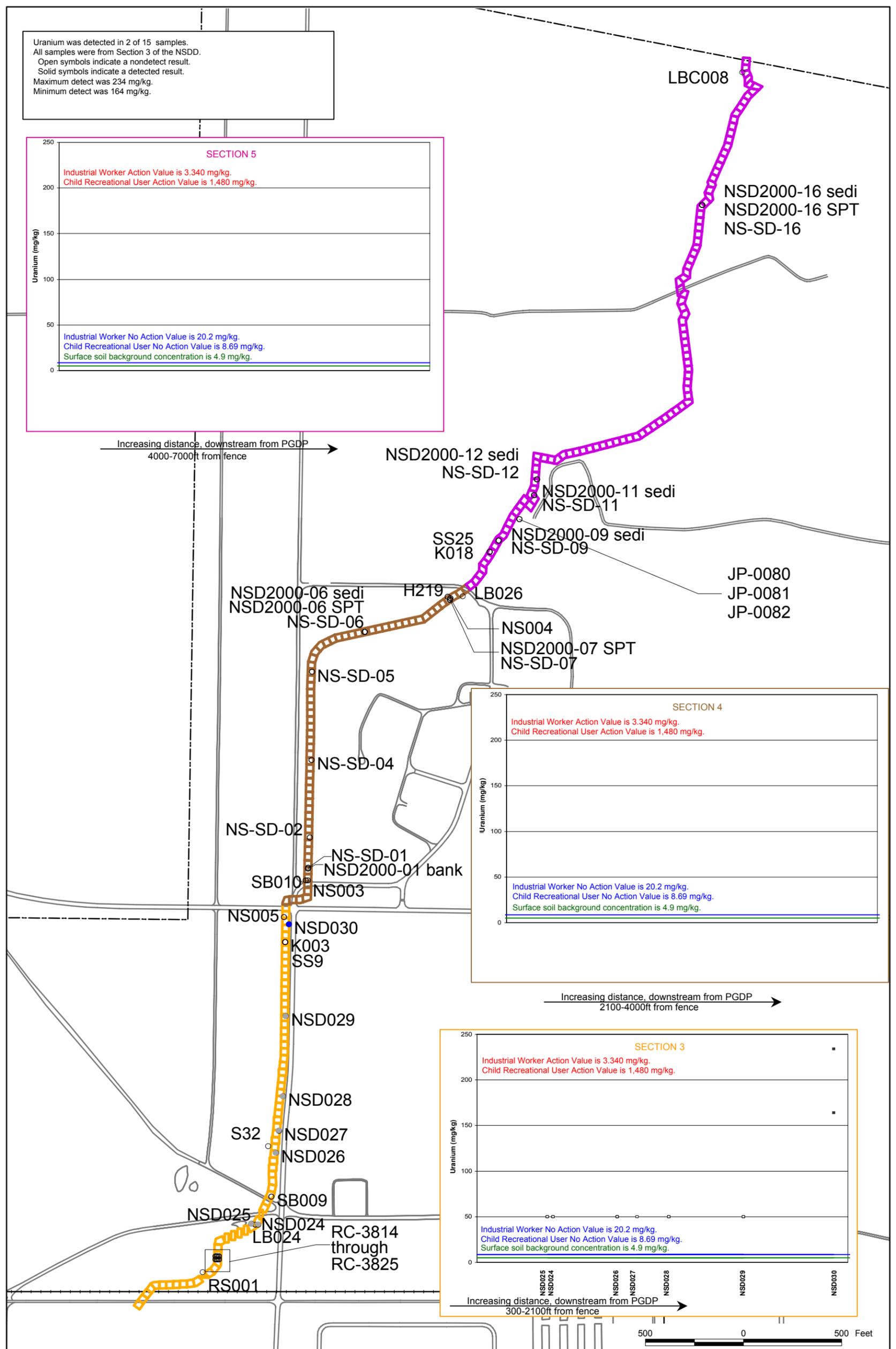
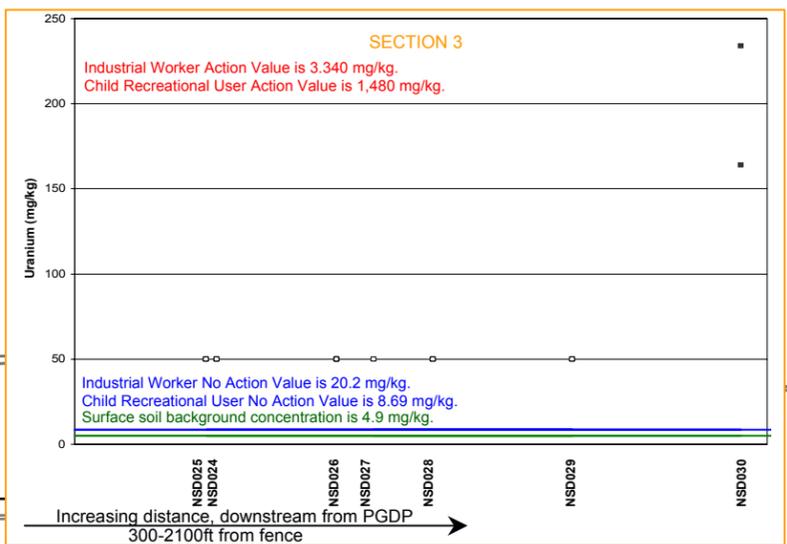
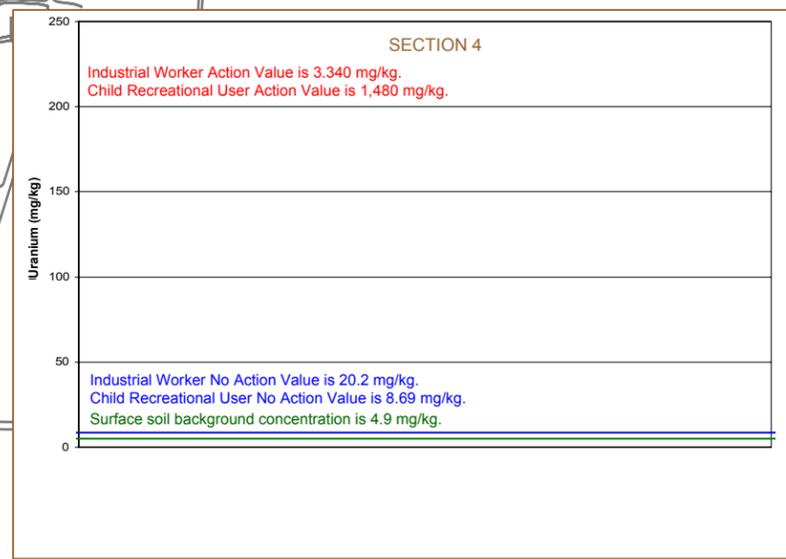
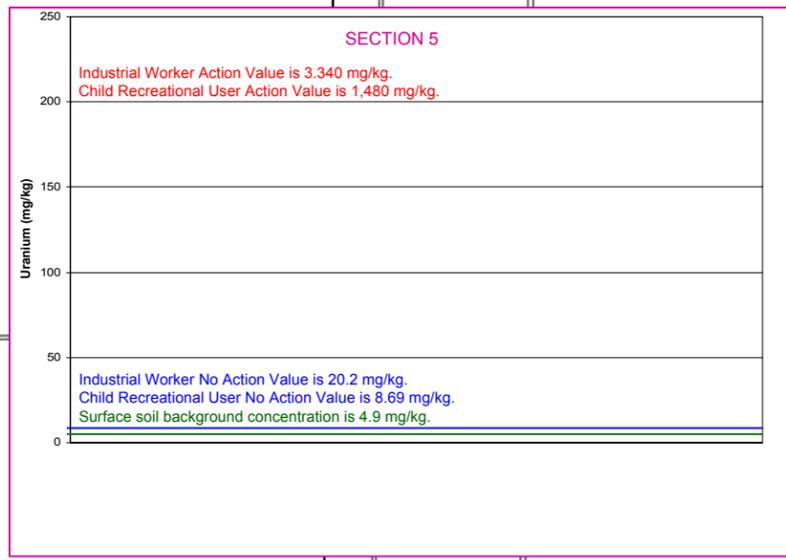
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Fig. 11. Locations in Sections 3-5 of the NSDD where one or more sampling results have a thallium concentration greater than screening levels.

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Uranium was detected in 2 of 15 samples.
 All samples were from Section 3 of the NSDD.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 234 mg/kg.
 Minimum detect was 164 mg/kg.



LEGEND

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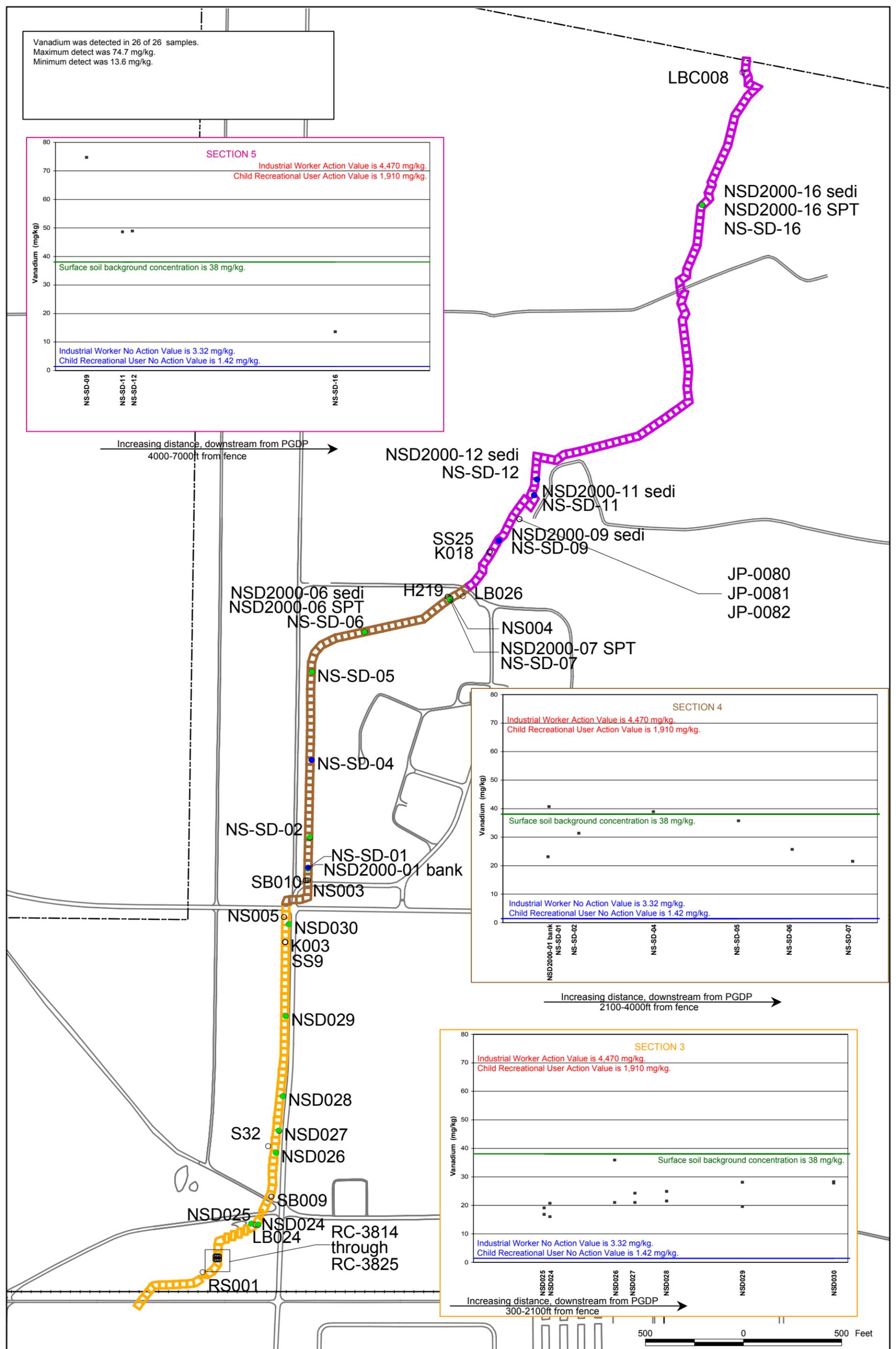
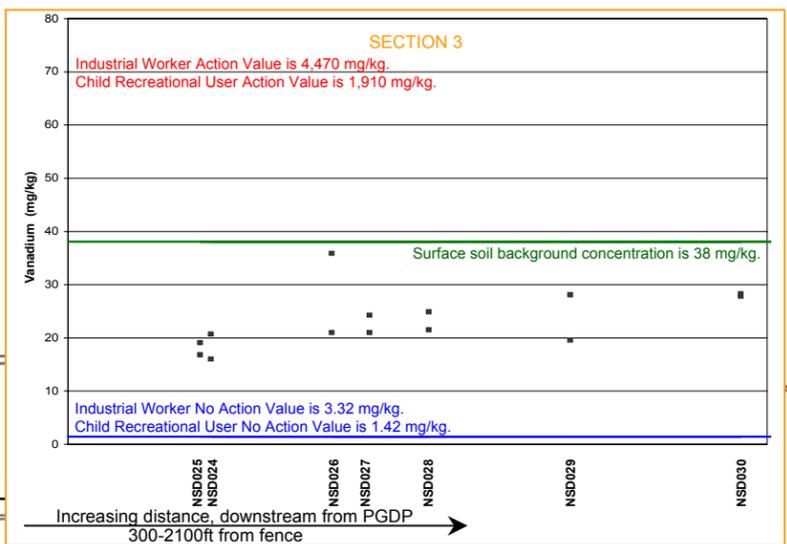
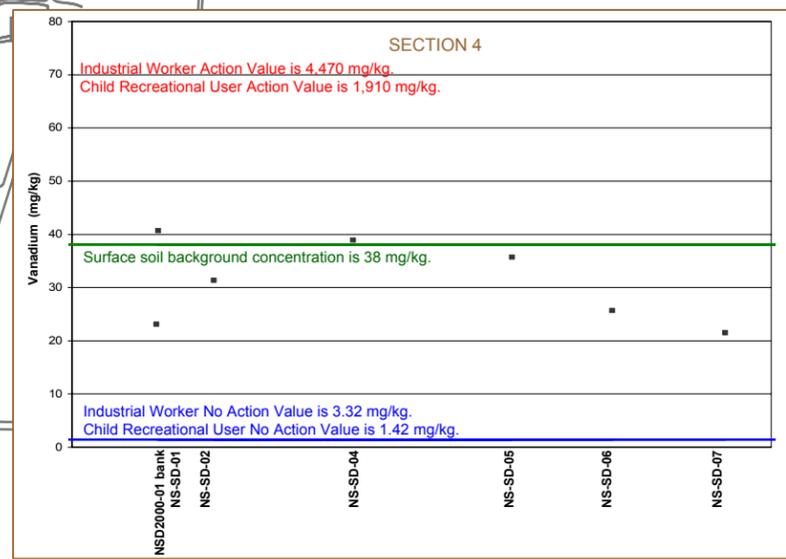
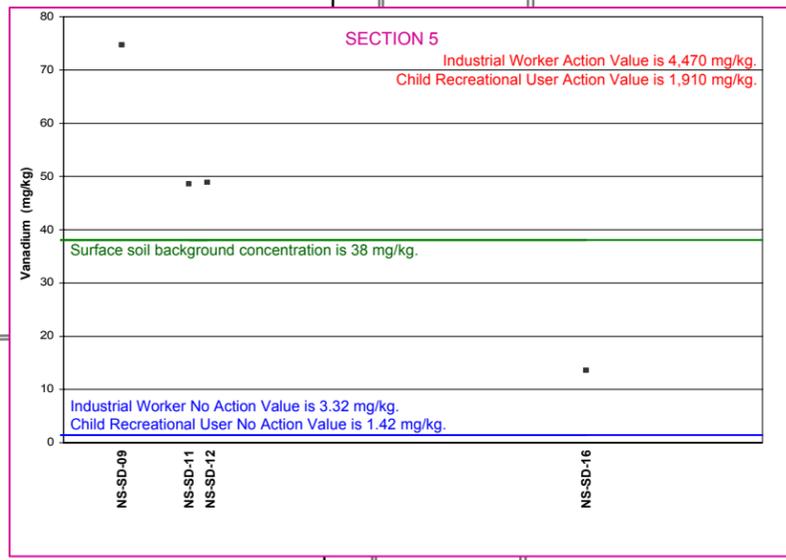
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Fig. 12. Locations in Sections 3-5 of the NSDD where one or more sampling results have a uranium concentration greater than screening levels.

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Vanadium was detected in 26 of 26 samples.
 Maximum detect was 74.7 mg/kg.
 Minimum detect was 13.6 mg/kg.



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- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE < SCREENING LEVELS
- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > SCREENING LEVELS
- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > ACTION LEVELS (no samples were detected above action levels)

NOTE: Screening levels are the surface soil background concentration and the risk-based no action level for the industrial worker.

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Fig. 13. Locations in Sections 3-5 of the NSDD where one or more sampling results have a vanadium concentration greater than screening levels.

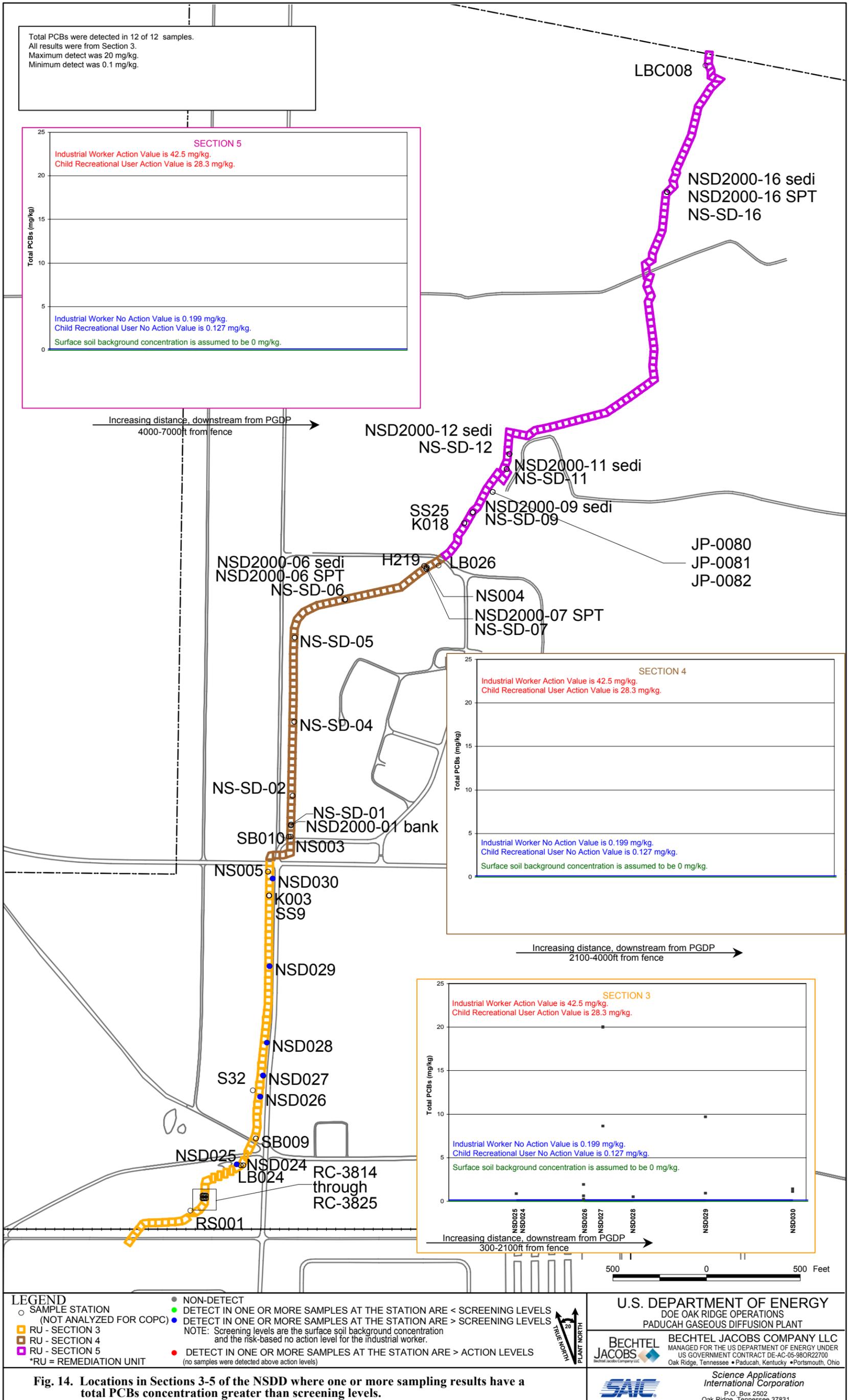
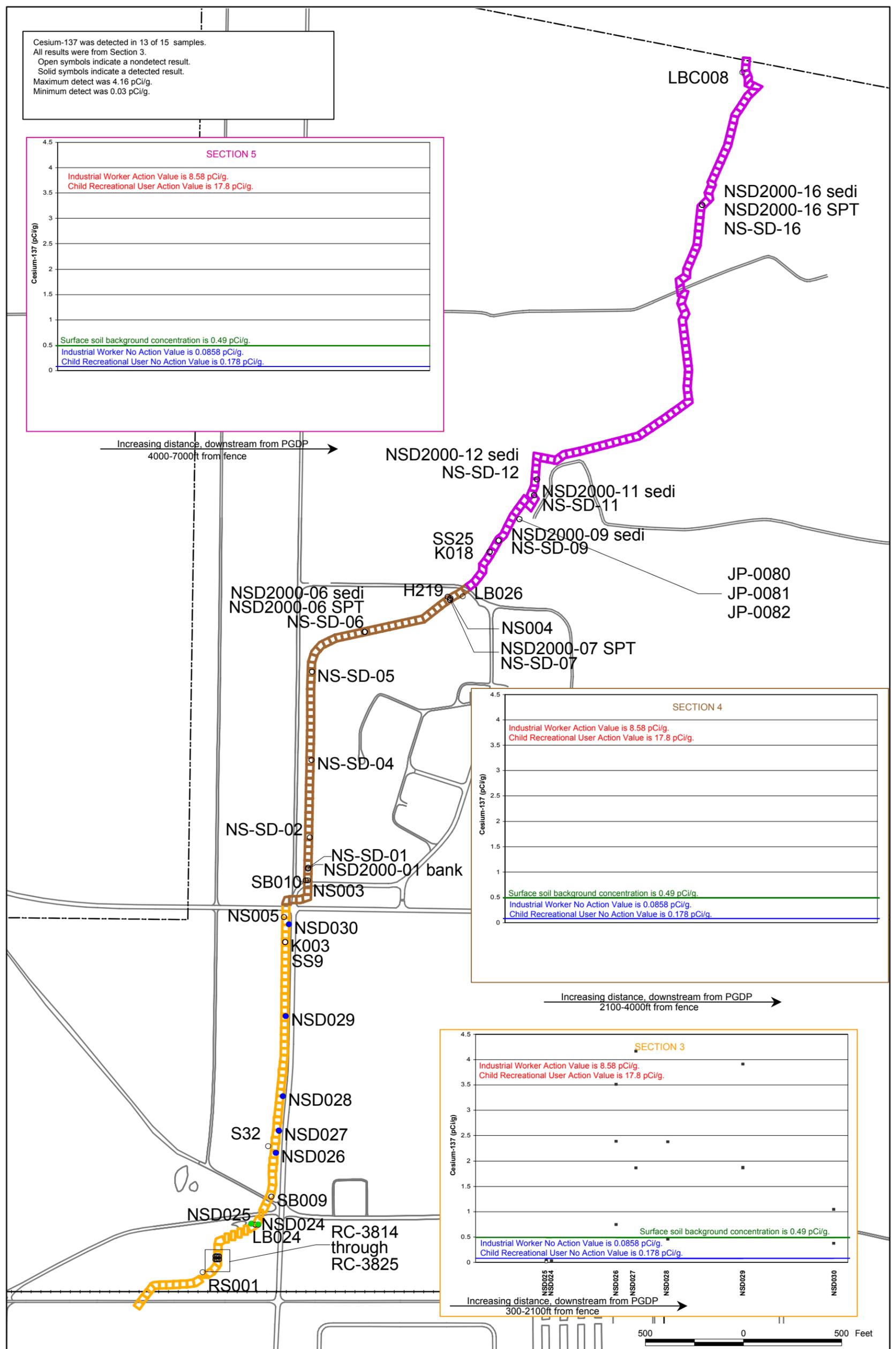
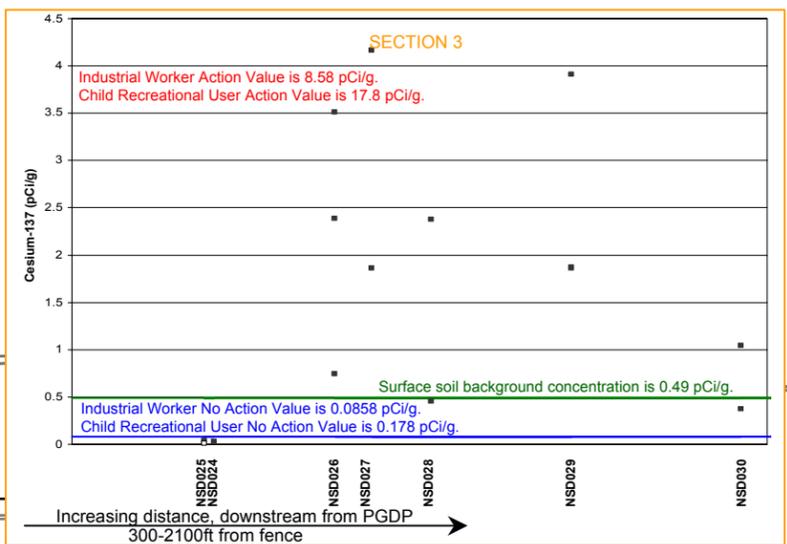
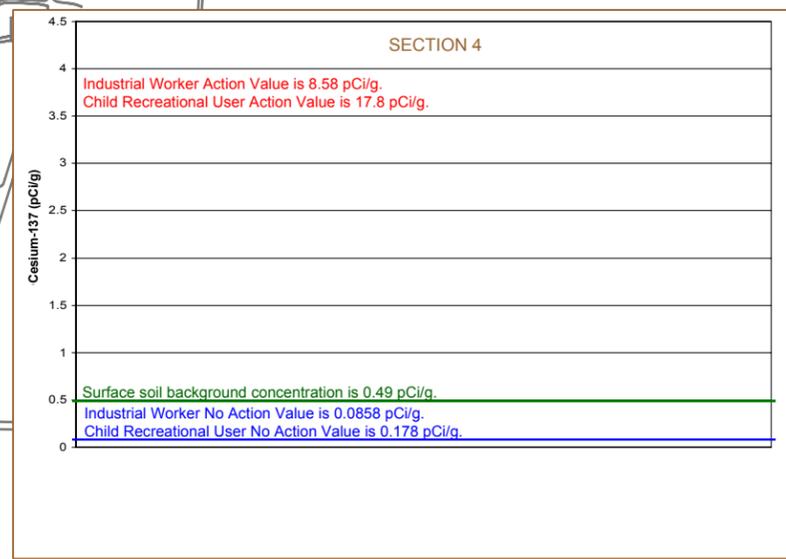
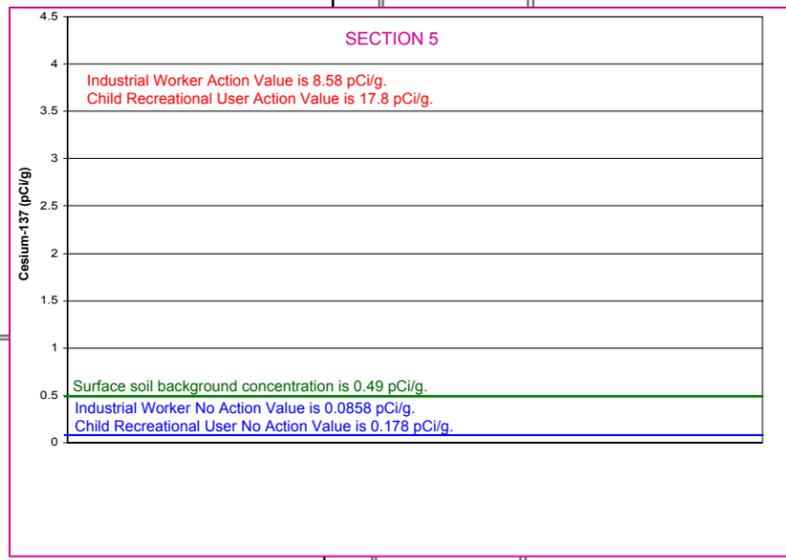


Fig. 14. Locations in Sections 3-5 of the NSDD where one or more sampling results have a total PCBs concentration greater than screening levels.

Cesium-137 was detected in 13 of 15 samples.
 All results were from Section 3.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 4.16 pCi/g.
 Minimum detect was 0.03 pCi/g.



LEGEND

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- NOTE: Screening levels are the surface soil background concentration and the risk-based no action level for the industrial worker.
- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > ACTION LEVELS (no samples were detected above action levels)

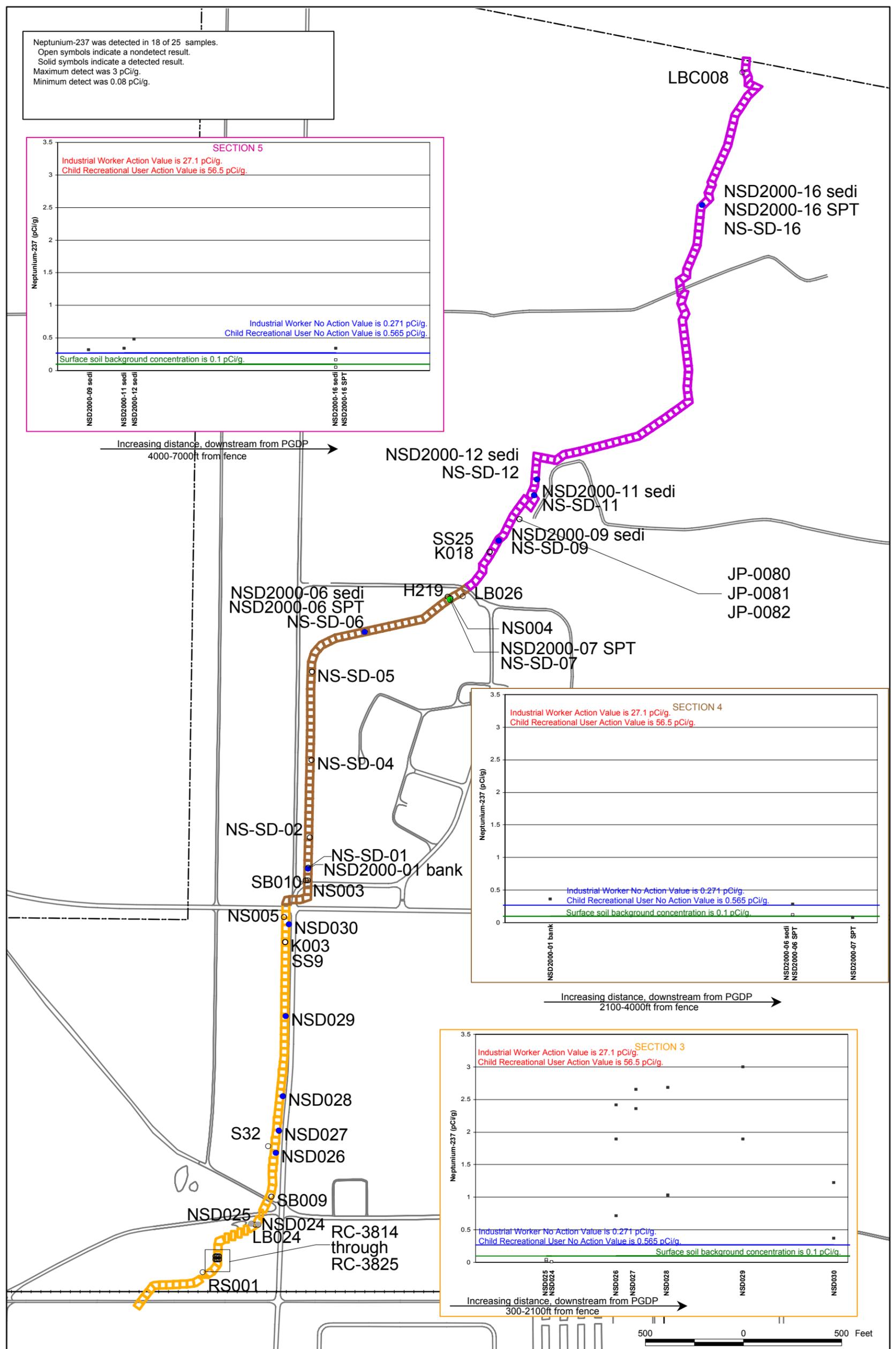
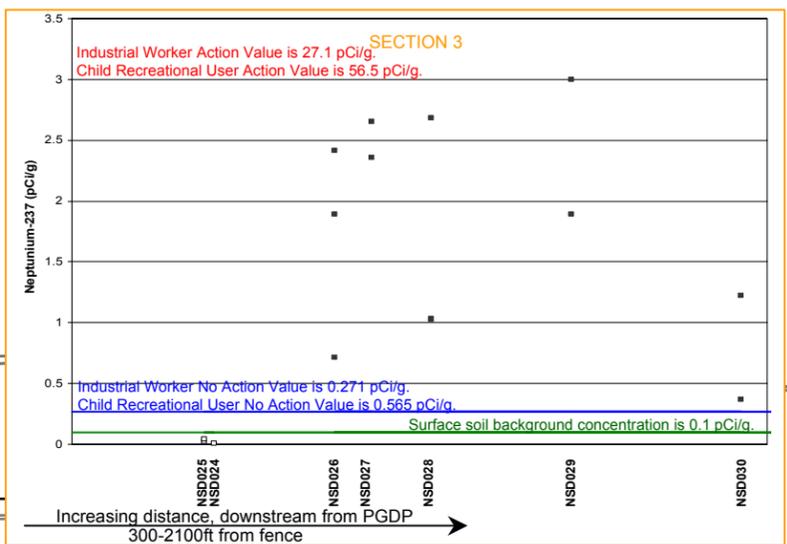
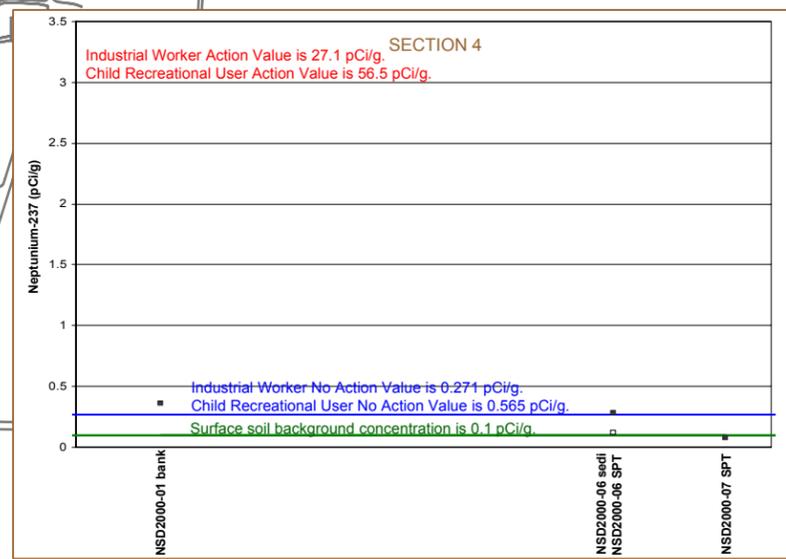
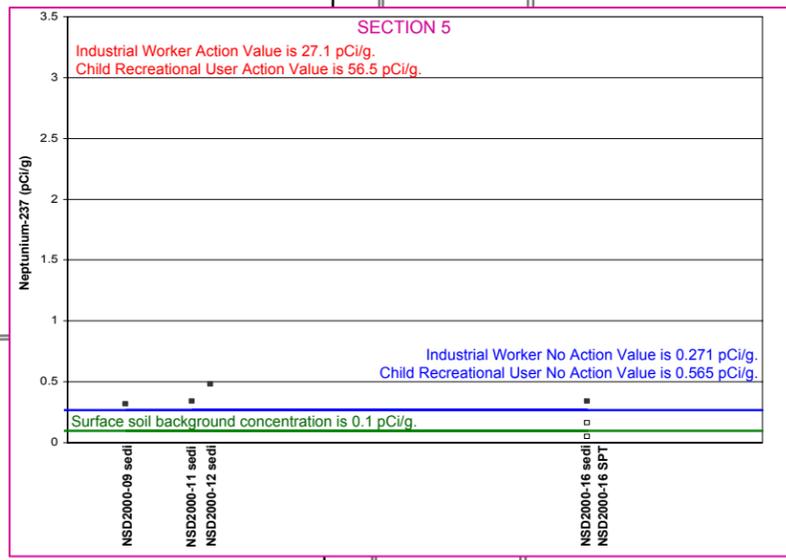
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Fig. 16. Locations in Sections 3-5 of the NSDD where one or more sampling results have a cesium-137 activity greater than screening levels.

Neptunium-237 was detected in 18 of 25 samples.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 3 pCi/g.
 Minimum detect was 0.08 pCi/g.



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- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > ACTION LEVELS (no samples were detected above action levels)

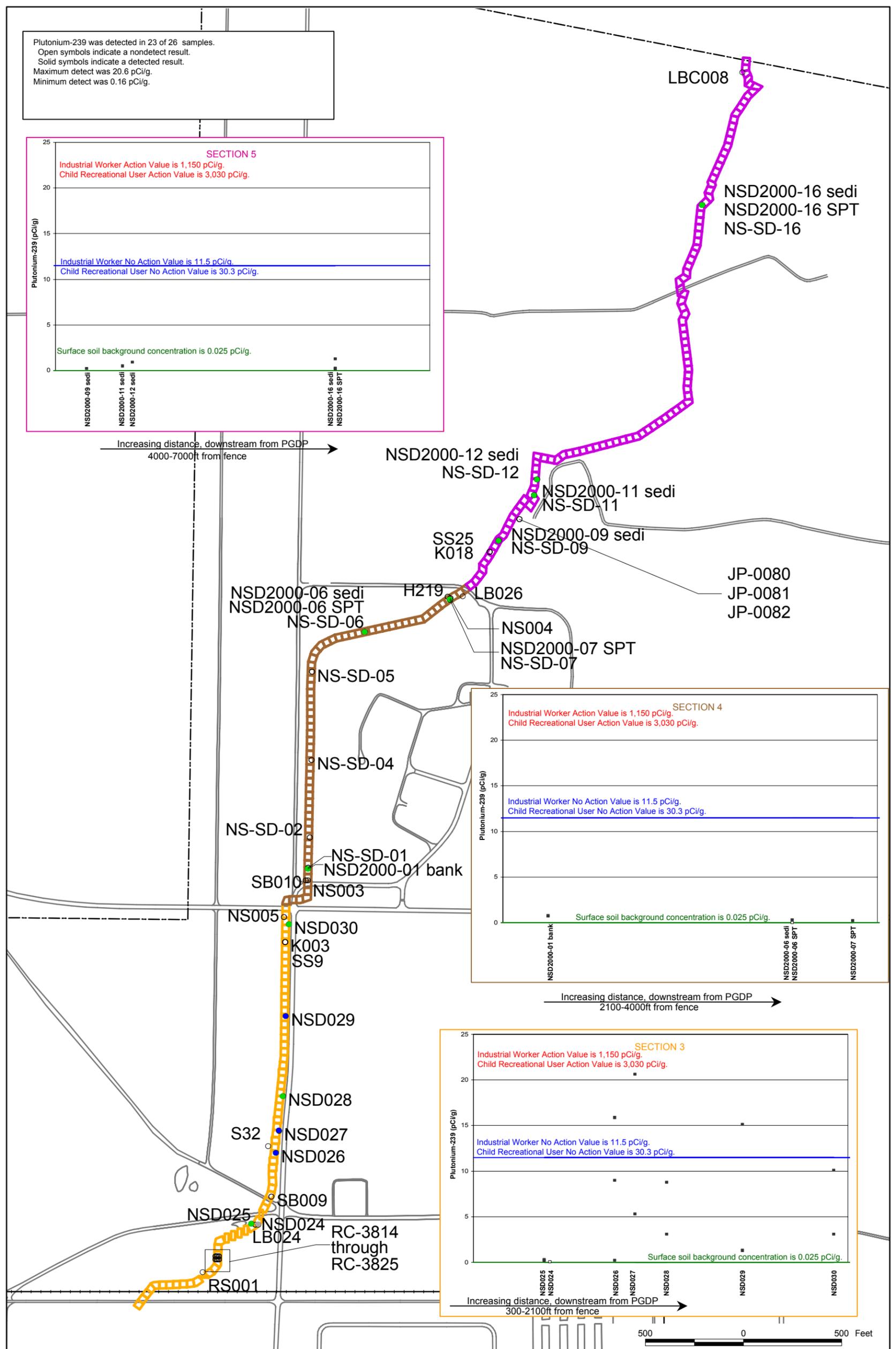
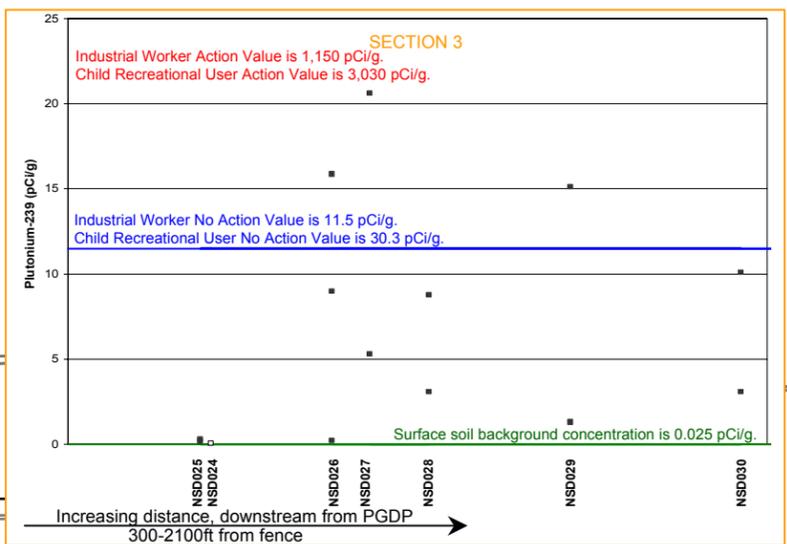
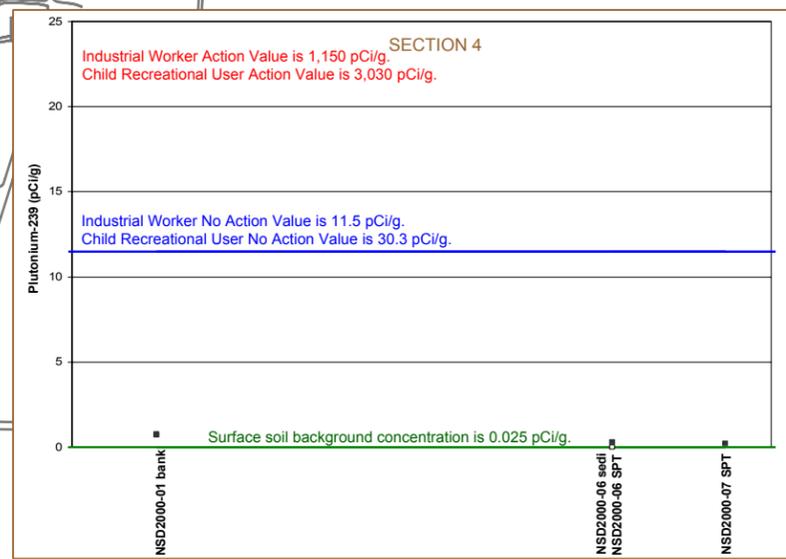
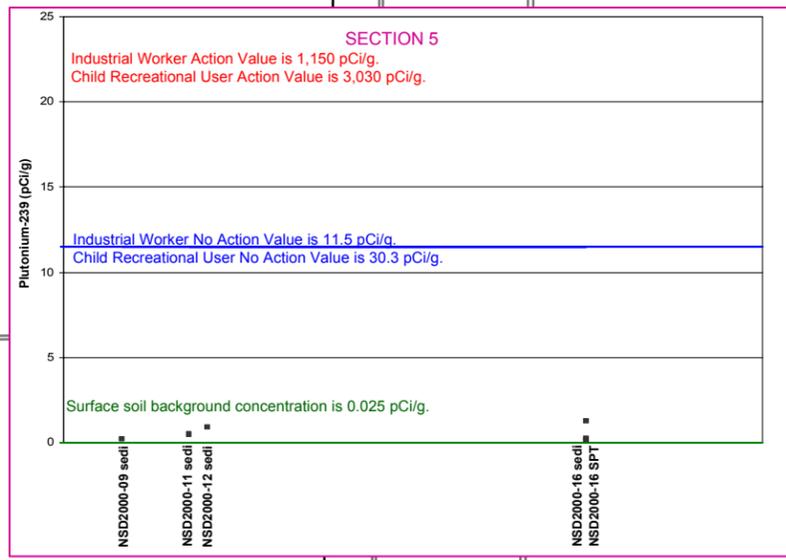
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Fig. 17. Locations in Sections 3-5 of the NSDD where one or more sampling results have a neptunium-237 activity greater than screening levels.

Plutonium-239 was detected in 23 of 26 samples.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 20.6 pCi/g.
 Minimum detect was 0.16 pCi/g.



LEGEND

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NOTE: Screening levels are the surface soil background concentration and the risk-based no action level for the industrial worker.

- RU - SECTION 3
- RU - SECTION 4
- RU - SECTION 5
- *RU = REMEDIATION UNIT
- DETECT IN ONE OR MORE SAMPLES AT THE STATION ARE > ACTION LEVELS (no samples were detected above action levels)

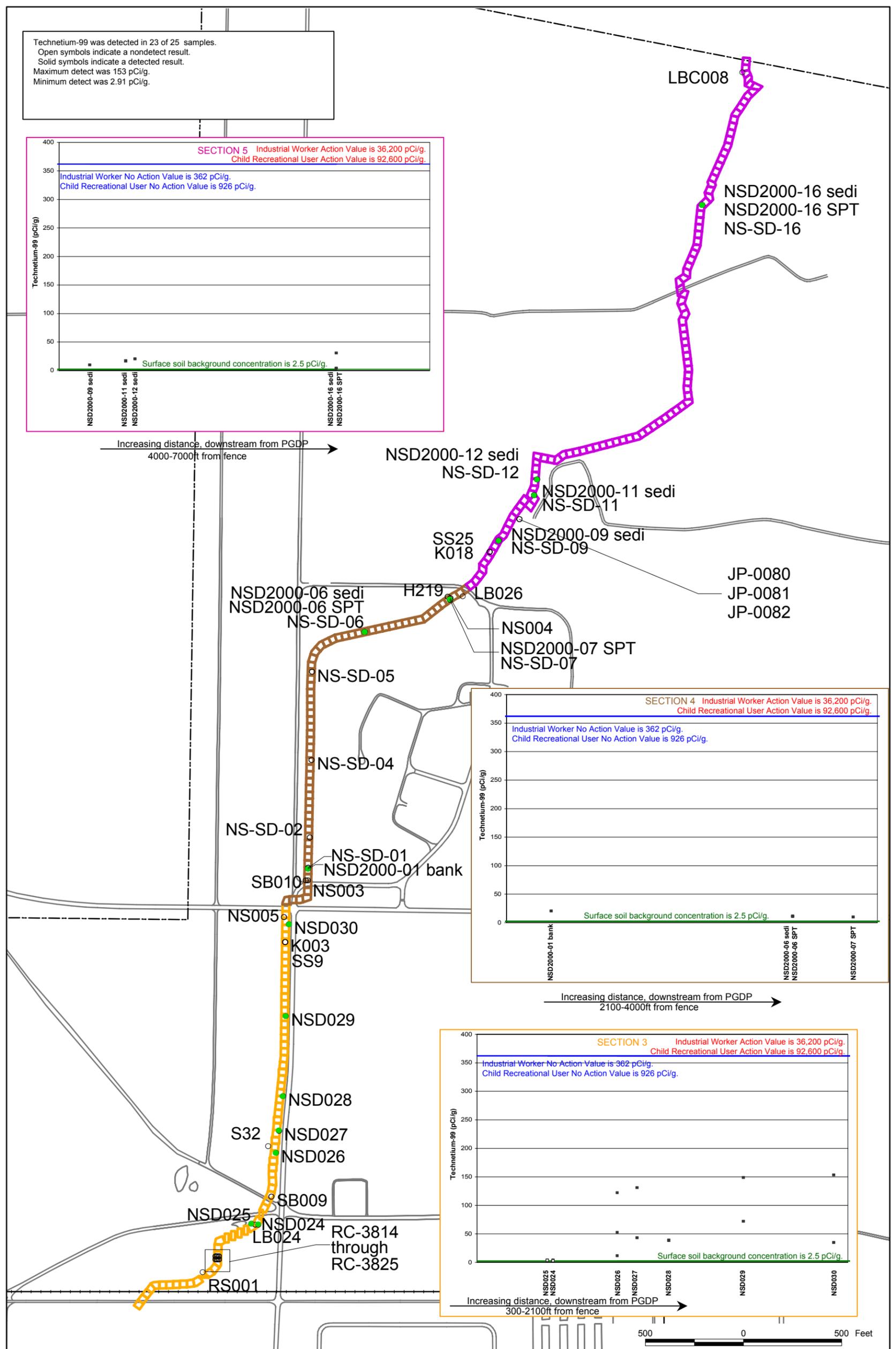
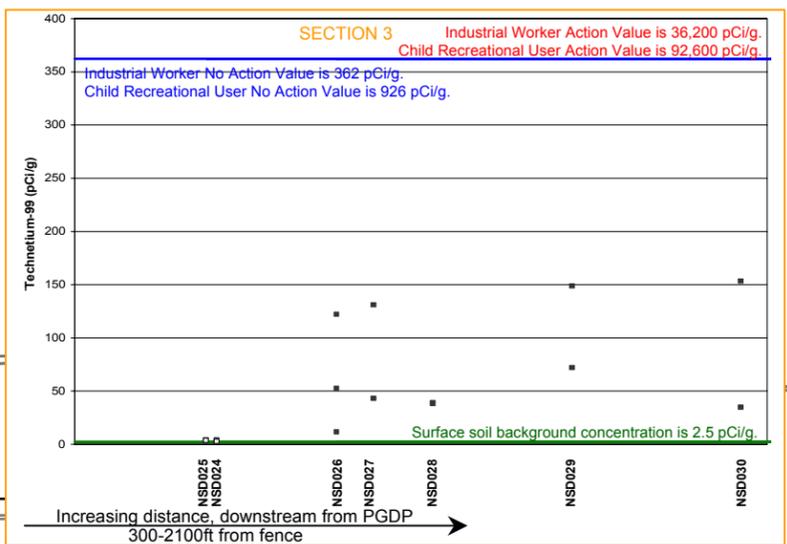
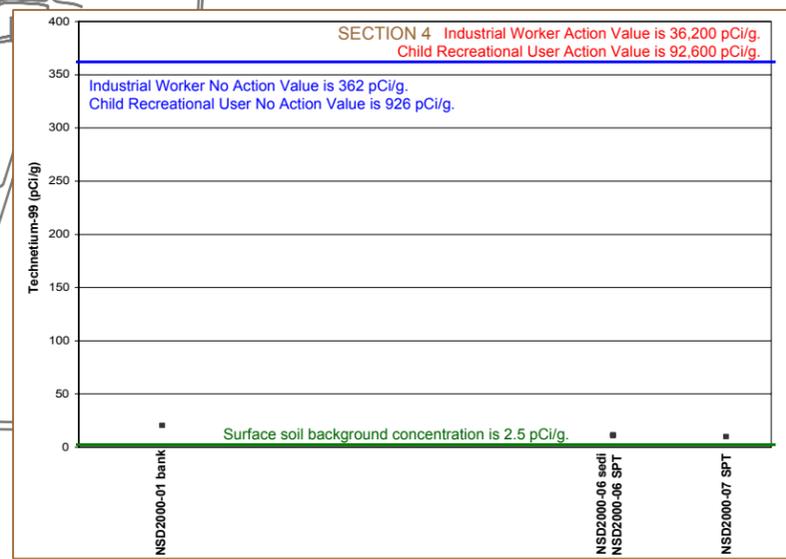
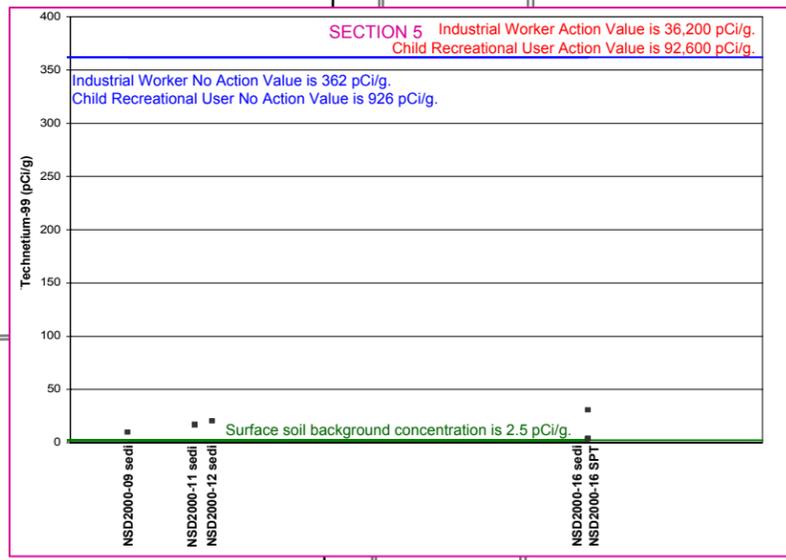
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Fig. 18. Locations in Sections 3-5 of the NSDD where one or more sampling results have a plutonium-239 activity greater than screening levels.

Technetium-99 was detected in 23 of 25 samples.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 153 pCi/g.
 Minimum detect was 2.91 pCi/g.



LEGEND

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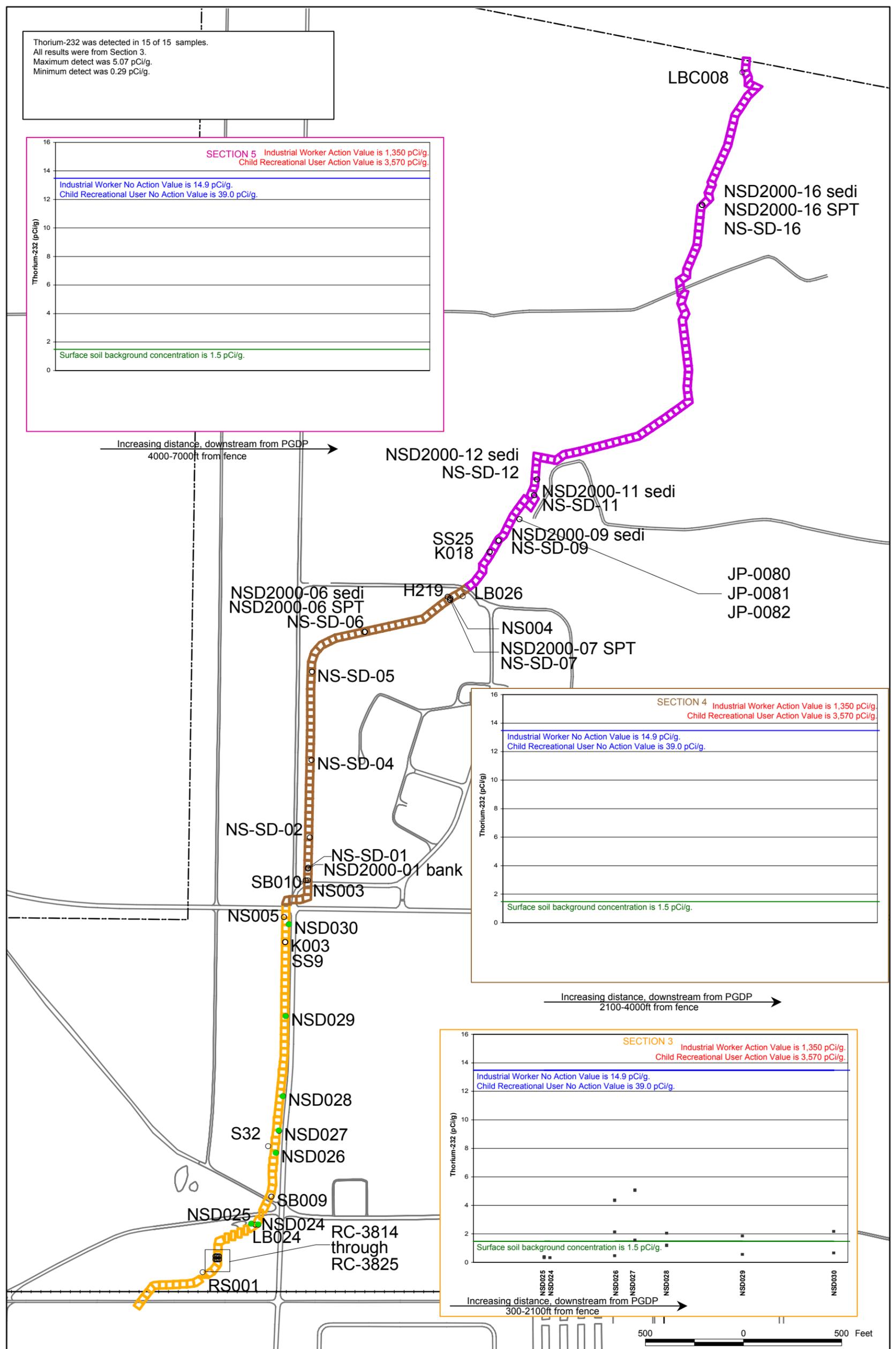
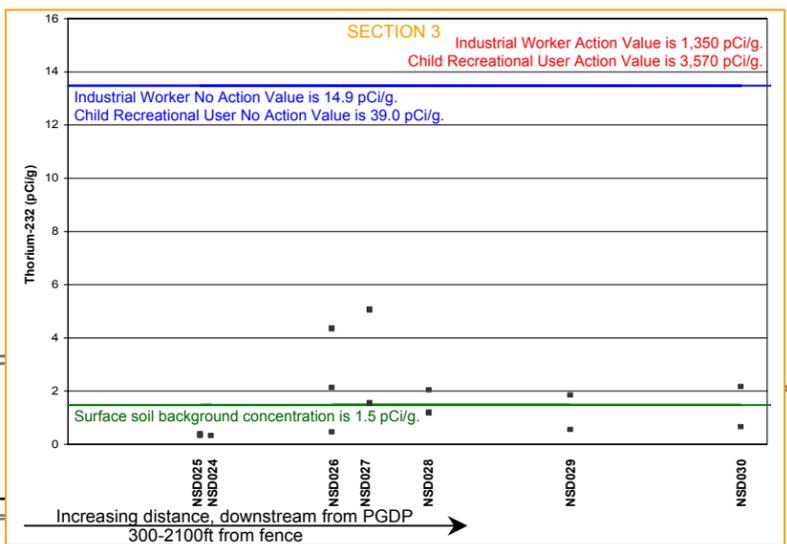
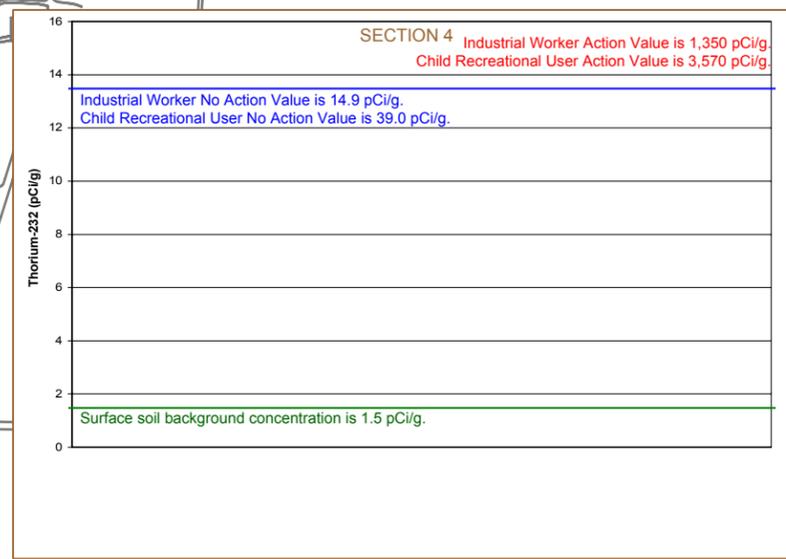
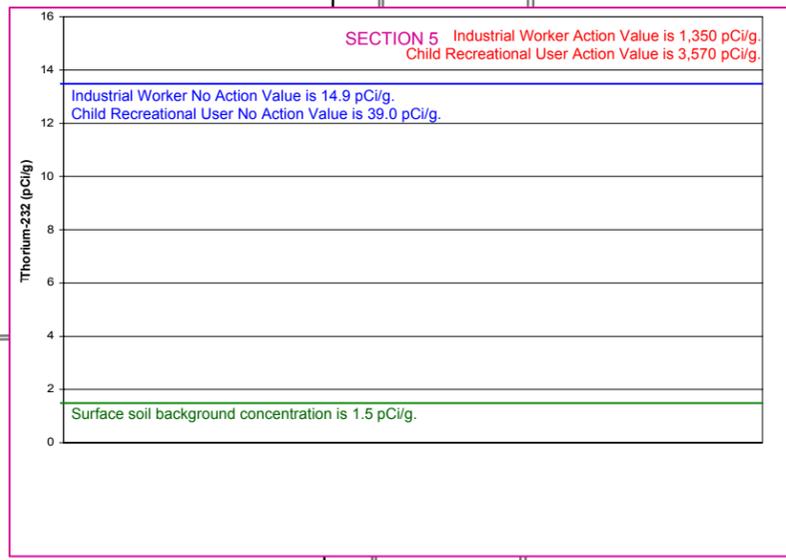
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Fig. 19. Locations in Sections 3-5 of the NSDD where one or more sampling results have a technetium-99 activity greater than screening levels.

Thorium-232 was detected in 15 of 15 samples.
 All results were from Section 3.
 Maximum detect was 5.07 pCi/g.
 Minimum detect was 0.29 pCi/g.



LEGEND

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NOTE: Screening levels are the surface soil background concentration and the risk-based no action level for the industrial worker.

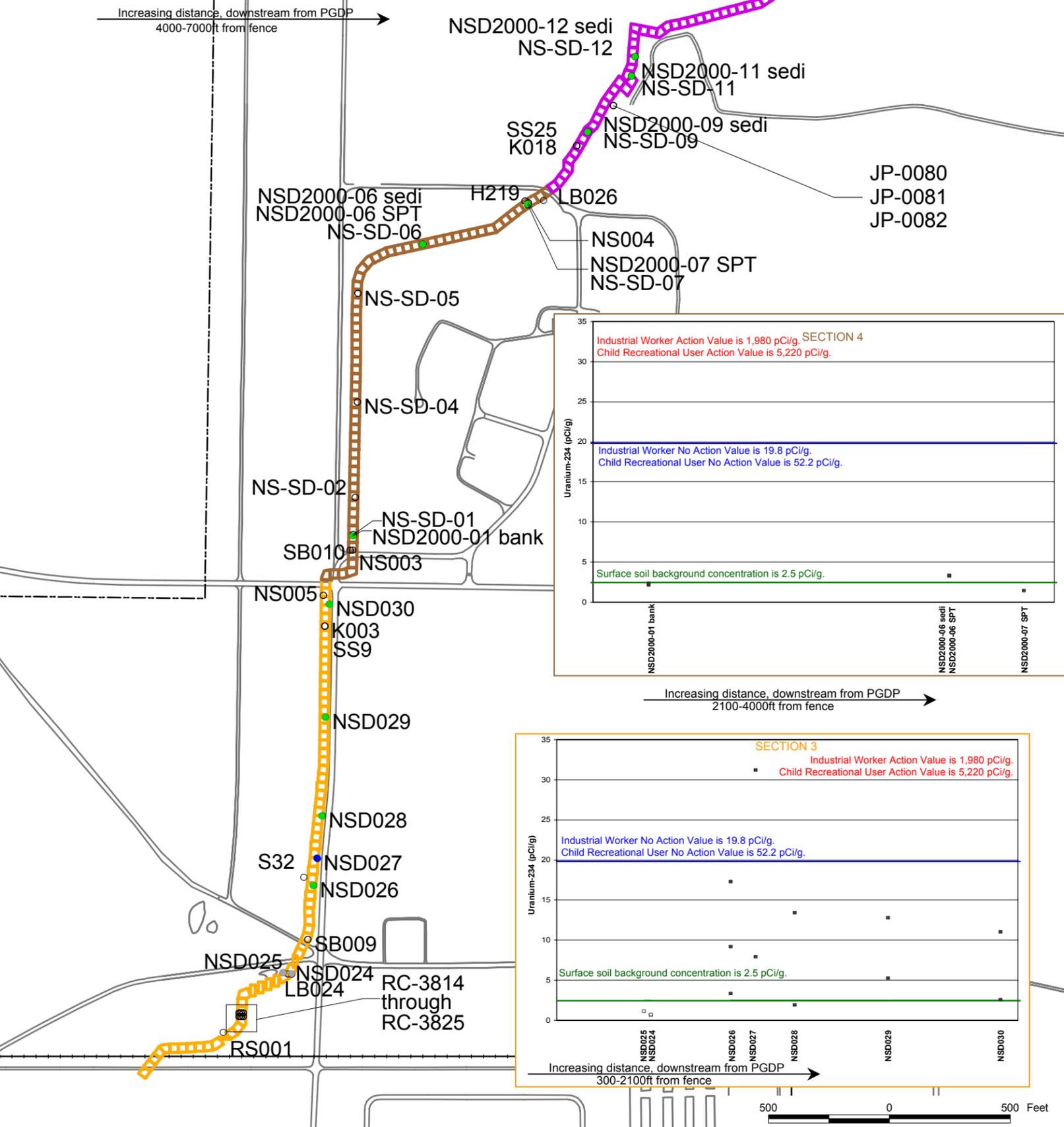
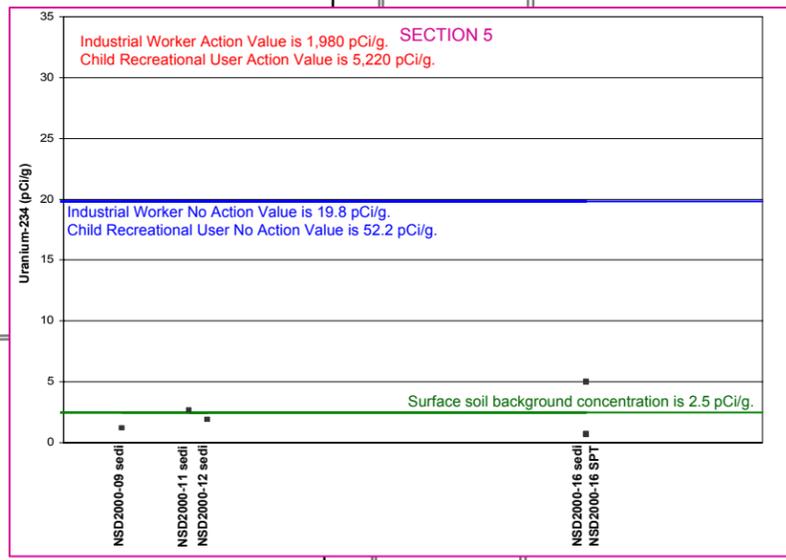
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Fig. 21. Locations in Sections 3-5 of the NSDD where one or more sampling results have a thorium-232 activity greater than screening levels.

Uranium-234 was detected in 22 of 26 samples.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 31.2 pCi/g.
 Minimum detect was 0.69 pCi/g.



LEGEND
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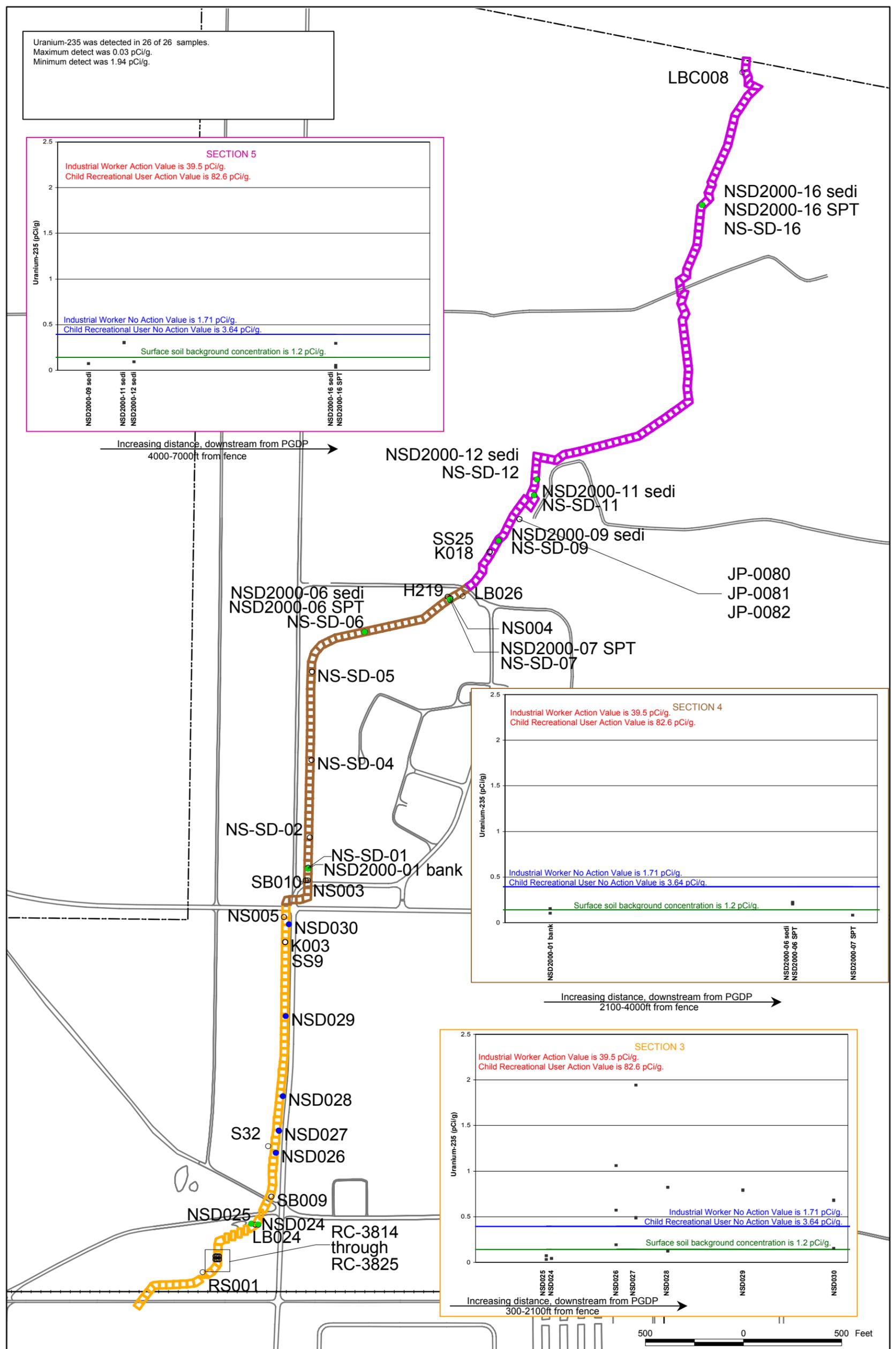
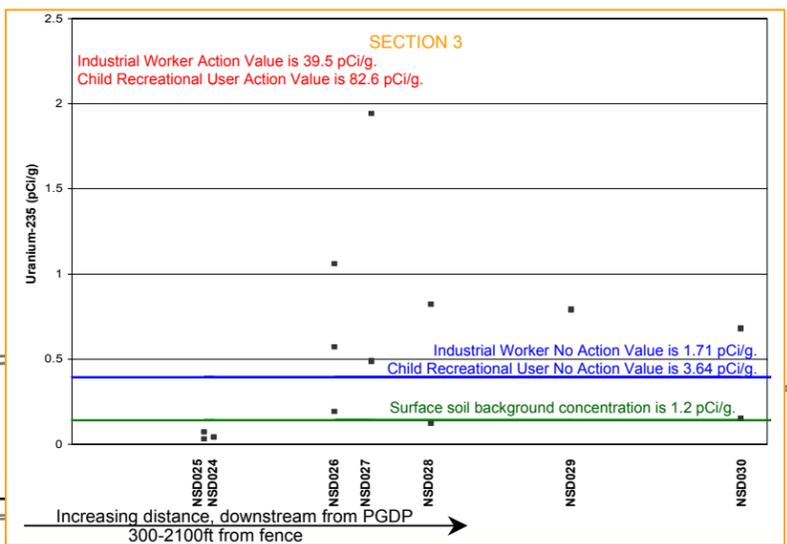
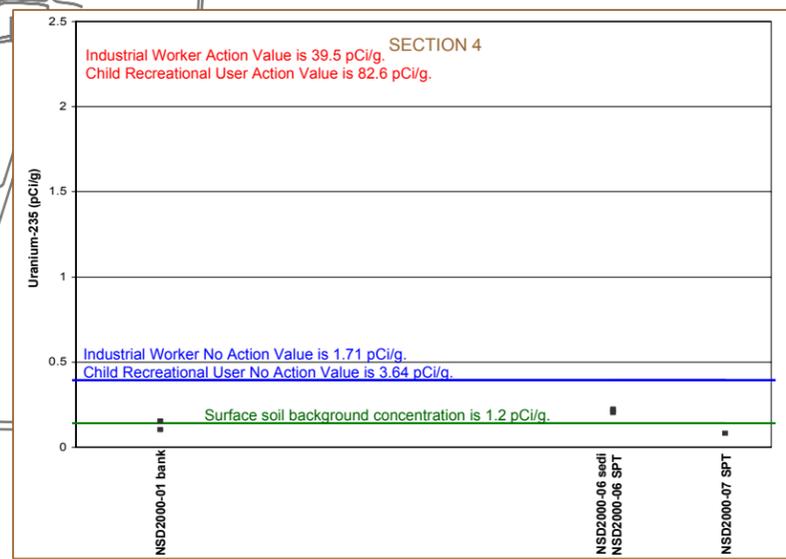
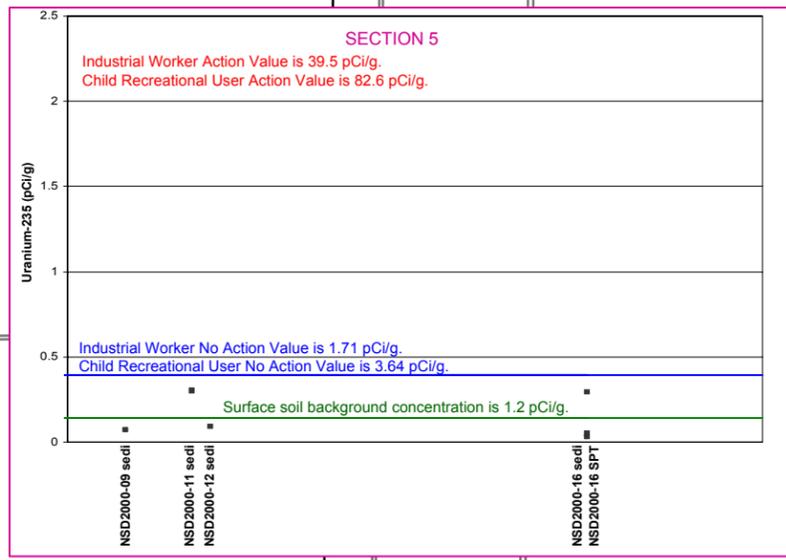
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Fig. 22. Locations in Sections 3-5 of the NSDD where one or more sampling results have a uranium-234 activity greater than screening levels.

Uranium-235 was detected in 26 of 26 samples.
 Maximum detect was 0.03 pCi/g.
 Minimum detect was 1.94 pCi/g.



LEGEND

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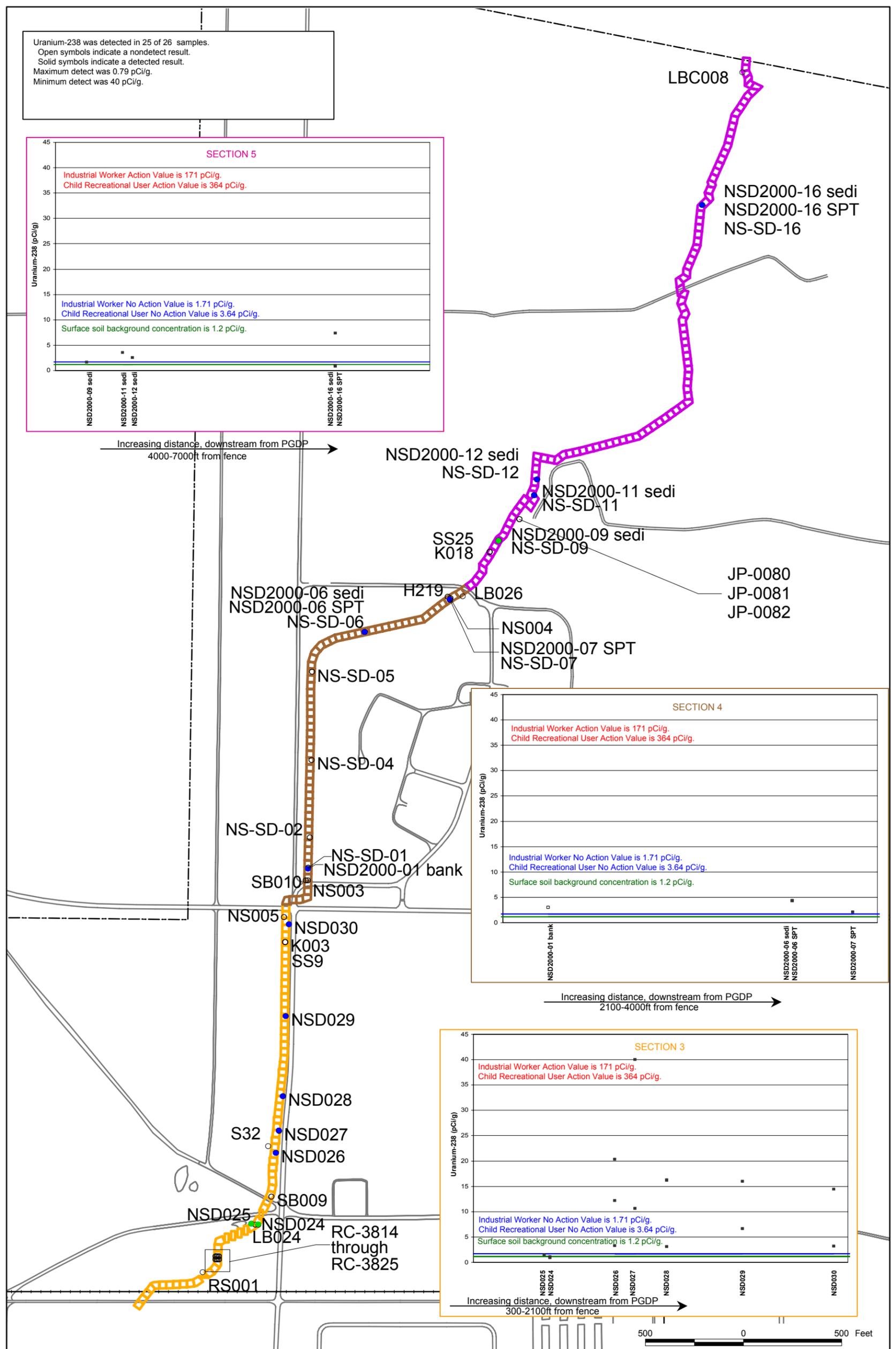
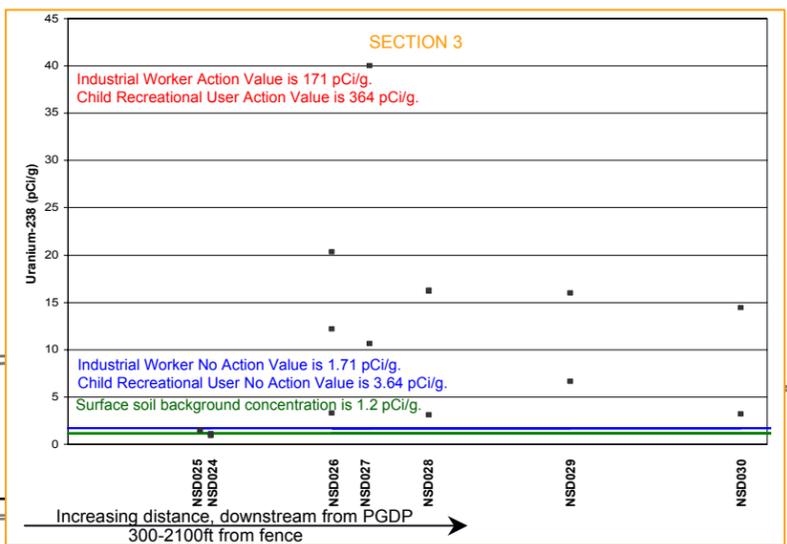
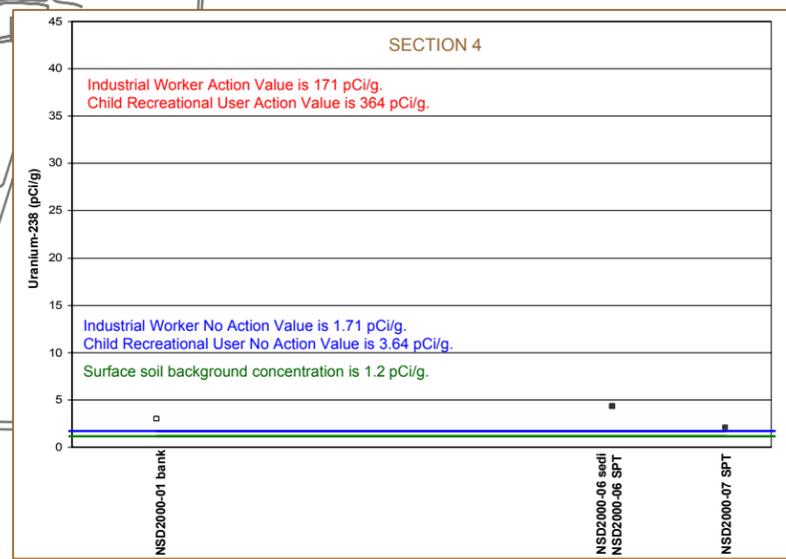
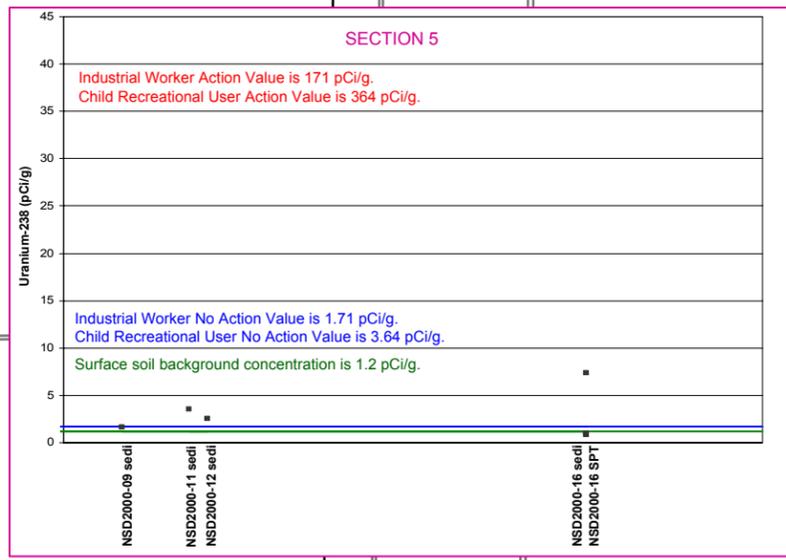
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Fig. 23. Locations in Sections 3-5 of the NSDD where one or more sampling results have a uranium-235 activity greater than screening levels.

Uranium-238 was detected in 25 of 26 samples.
 Open symbols indicate a nondetect result.
 Solid symbols indicate a detected result.
 Maximum detect was 0.79 pCi/g.
 Minimum detect was 40 pCi/g.



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Fig. 24. Locations in Sections 3-5 of the NSDD where one or more sampling results have a uranium-238 activity greater than screening levels.