Table H4-C1
Summary of Contaminant Concentrations in Produce
Plant Area

Chemical	Concentration in Soil - Cs (mg/kg)	Concentration in Aboveground Produce (mg/kg DW)	Concentration in Belowground Produce (mg/kg DW)	Total Produce Concentration (dry-weight basis) (mg/kg)	Concentration in Aboveground Produce (mg/kg wet weight)	Concentration in Belowground Produce (mg/kg wet weight)	Total Produce Concentration (wet-weight basis) (mg/kg)
ALUMINUM	1.2E+04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
ARSENIC	9.8E+00	6.2E-02	7.9E-02	6.5E-02	7.8E-03	1.7E-02	9.2E-03
BENZO(A)ANTHRACENE	3.8E+00	7.8E-02	8.1E-02	7.8E-02	9.8E-03	1.8E-02	1.1E-02
BENZO(A)PYRENE	3.5E+00	3.8E-02	4.3E-02	3.9E-02	4.8E-03	9.7E-03	5.5E-03
BENZO(B)FLUORANTHENE	4.4E+00	4.4E-02	7.3E-02	4.8E-02	5.5E-03	1.6E-02	7.0E-03
BENZO(K)FLUORANTHENE	3.8E+00	3.9E-02	6.4E-02	4.3E-02	4.9E-03	1.4E-02	6.2E-03
BENZO[G,H,I]PERYLENE	2.0E+00	2.0E-02	3.3E-02	2.2E-02	2.5E-03	7.4E-03	3.2E-03
CARBAZOLE	1.4E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHRYSENE	1.9E+00	3.5E-02	3.9E-02	3.6E-02	4.5E-03	8.6E-03	5.1E-03
COPPER	2.0E+02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
DIBENZO(A,H)ANTHRACENE	7.8E-01	4.9E-03	1.1E-02	5.8E-03	6.2E-04	2.5E-03	8.8E-04
ENDRIN ALDEHYDE	4.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INDENO(1,2,3-CD)PYRENE	2.4E+00	9.2E-03	2.8E-02	1.2E-02	1.2E-03	6.2E-03	1.9E-03
IRON	1.7E+04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
LEAD	1.3E+01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MANGANESE	8.4E+02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
total PCBs	1.1E-01	1.1E-03	1.6E-02	3.2E-03	1.4E-04	3.5E-03	6.2E-04
2-METHYLNAPTHALENE	1.7E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PHENANTHRENE	7.1E+00	6.4E-01	1.1E-01	5.6E-01	8.1E-02	2.4E-02	7.3E-02
SODIUM	2.9E+02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
THALLIUM	4.2E-01	3.6E-04	1.7E-04	3.3E-04	4.5E-05	3.7E-05	4.4E-05
VANADIUM	3.2E+01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Fraction of crop intake as aboveground produce	8.6E-01
Fraction of crop intake as root crops (belowground	1.4E-01

Wet-to-dry weight conversion factor - aboveground produce (grams dry/grams wet)	1.3E-01
Wet-to-dry weight conversion factor - belowground produce (grams dry/grams wet)	2.2E-01

Table H4-C2
Contaminant Concentration in Above Ground Produce
Plant Area

$$\mathrm{Pr}_{ag} = Cs \times Br_{ag}$$

Symbol	Value	Description	Units
Cs	measured	Average soil concentration over exposure duration	mg/kg
Prag	chemical-specific	Concentration in aboveground produce due to root uptake	mg/kg DW
Br_{ag}	chemical-specific	Plant-soil bioconcentration factor for aboveground produce	unitless
Br_{forage}	chemical-specific	Plant-soil bioconcentration factor for aboveground produce - livestock foage and silage	unitless

Chemical	Cs (mg/kg)	Br_{ag}	Pr_{ag} - (mg/kg DW)
2-METHYLNAPHTHALENE	1.70E+00	0.00E+00	0.00E+00
ALUMINUM	1.22E+04	0.00E+00	0.00E+00
ARSENIC	9.84E+00	6.33E-03	6.23E-02
BENZO(A)ANTHRACENE	3.84E+00	2.02E-02	7.76E-02
BENZO(A)PYRENE	3.45E+00	1.11E-02	3.83E-02
BENZO(B)FLUORANTHENE	4.37E+00	1.00E-02	4.37E-02
BENZO(K)FLUORANTHENE	3.84E+00	1.02E-02	3.92E-02
BENZO[G,H,I]PERYLENE	2.00E+00	1.00E-02	2.00E-02
CARBAZOLE	1.40E+00	0.00E+00	0.00E+00
CHRYSENE	1.90E+00	1.87E-02	3.55E-02
COPPER	1.96E+02	0.00E+00	0.00E+00
DIBENZO(A,H)ANTHRACENE	7.77E-01	6.36E-03	4.94E-03
INDENO(1,2,3-CD)PYRENE	2.36E+00	3.90E-03	9.20E-03
IRON	1.74E+04	0.00E+00	0.00E+00
LEAD	1.30E+01	0.00E+00	0.00E+00
MANGANESE	8.35E+02	0.00E+00	0.00E+00
PCB-1016	0.00E+00	2.91E-02	0.00E+00
PCB-1221	0.00E+00	0.00E+00	0.00E+00
PCB-1232	0.00E+00	0.00E+00	0.00E+00
PCB-1242	1.50E-02	0.00E+00	0.00E+00
PCB-1248	7.00E-02	0.00E+00	0.00E+00
total PCBs	1.12E-01	1.00E-02	1.12E-03
PCB-1260	1.40E-02	0.00E+00	0.00E+00
PHENANTHRENE	7.10E+00	9.00E-02	6.39E-01
SODIUM	2.94E+02	0.00E+00	0.00E+00
THALLIUM	4.20E-01	8.58E-04	3.60E-04
VANADIUM	3.16E+01	0.00E+00	0.00E+00

Table H4-C3
Contaminant Concentration in Below Ground Produce
Plant Area

$$\mathrm{Pr}_{bg} = Cs \times Br_{rootveg} \times VG_{rootveg}$$

Symbol	Value	Description	Units
Prbg	calculated	Concentration of COPC in belowground produce due to root uptake	mg COPC/kg DW
Cs	measured	Average soil concentration over exposure duration	mg/kg
$Br_{rootveg}$	chemical-specific	Plant-soil bioconcentration factor for belowground produce	unitless
$VG_{rootveg}$	chemical-specific	Empirical correction factor for belowground produce	unitless

Chemical	**Cs (mg/kg in soil)**	**$Br_{rootveg}$**	**$VG_{rootveg}$**	**Pr_{bg} - (mg/kg)**
2-METHYLNAPHTHALENE	1.70E+00	0.00E+00	1.00E+00	0.00E+00
ALUMINUM	1.22E+04	0.00E+00	1.00E+00	0.00E+00
ARSENIC	9.84E+00	8.00E-03	1.00E+00	7.87E-02
BENZO(A)ANTHRACENE	3.84E+00	2.11E+00	1.00E-02	8.10E-02
BENZO(A)PYRENE	3.45E+00	1.26E+00	1.00E-02	4.35E-02
BENZO(B)FLUORANTHENE	4.37E+00	1.66E+00	1.00E-02	7.25E-02
BENZO(K)FLUORANTHENE	3.84E+00	1.66E+00	1.00E-02	6.37E-02
BENZO[G,H,I]PERYLENE	2.00E+00	1.66E+00	1.00E-02	3.32E-02
CARBAZOLE	1.40E+00	0.00E+00	1.00E+00	0.00E+00
CHRYSENE	1.90E+00	2.05E+00	1.00E-02	3.90E-02
COPPER	1.96E+02	0.00E+00	1.00E+00	0.00E+00
DIBENZO(A,H)ANTHRACENE	7.77E-01	1.43E+00	1.00E-02	1.11E-02
INDENO(1,2,3-CD)PYRENE	2.36E+00	1.19E+00	1.00E-02	2.81E-02
IRON	1.74E+04	0.00E+00	1.00E+00	0.00E+00
LEAD	1.30E+01	0.00E+00	1.00E+00	0.00E+00
MANGANESE	8.35E+02	0.00E+00	1.00E+00	0.00E+00
PCB-1016	0.00E+00	1.45E+01	1.00E-02	0.00E+00
PCB-1221	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1232	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1242	1.50E-02	0.00E+00	1.00E+00	0.00E+00
PCB-1248	7.00E-02	0.00E+00	1.00E+00	0.00E+00
total PCBs	1.12E-01	1.42E+01	1.00E-02	1.59E-02
PCB-1260	1.40E-02	0.00E+00	1.00E+00	0.00E+00
PHENANTHRENE	7.10E+00	1.49E+00	1.00E-02	1.06E-01
SODIUM	2.94E+02	0.00E+00	1.00E-02	0.00E+00
THALLIUM	4.20E-01	4.00E-04	1.00E+00	1.68E-04
VANADIUM	3.16E+01	0.00E+00	1.00E+00	0.00E+00

Table H4-D1
Summary of Contaminant Concentrations in Produce
Warehouse 2/3

Chemical	Concentration in Soil - Cs (mg/kg)	Concentration in Aboveground Produce (mg/kg DW)	Concentration in Belowground Produce (mg/kg DW)	Total Produce Concentration (dry-weight basis) (mg/kg)	Concentration in Aboveground Produce (mg/kg wet weight)	Concentration in Belowground Produce (mg/kg wet weight)	Total Produce Concentration (wet-weight basis) (mg/kg)
ALUMINUM	2.1E+04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
ARSENIC	1.3E+01	7.9E-02	1.0E-01	8.2E-02	1.0E-02	2.2E-02	1.2E-02
BENZO(A)ANTHRACENE	2.7E+00	5.4E-02	5.7E-02	5.5E-02	6.8E-03	1.3E-02	7.7E-03
BENZO(A)PYRENE	2.2E+00	2.4E-02	2.7E-02	2.4E-02	3.0E-03	6.0E-03	3.4E-03
BENZO(B)FLUORANTHENE	3.5E+00	3.5E-02	5.8E-02	3.8E-02	4.4E-03	1.3E-02	5.6E-03
BENZO(K)FLUORANTHENE	2.3E+00	2.3E-02	3.8E-02	2.5E-02	2.9E-03	8.3E-03	3.7E-03
BENZO[G,H,I]PERYLENE	1.1E+00	1.1E-02	1.9E-02	1.2E-02	1.4E-03	4.2E-03	1.8E-03
CARBAZOLE	2.7E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHRYSENE	1.1E+00	2.1E-02	2.3E-02	2.1E-02	2.7E-03	5.1E-03	3.0E-03
DIBENZO(A,H)ANTHRACENE	3.1E-01	2.0E-03	4.5E-03	2.3E-03	2.5E-04	9.9E-04	3.5E-04
INDENO(1,2,3-CD)PYRENE	1.5E+00	5.7E-03	1.7E-02	7.3E-03	7.1E-04	3.8E-03	1.1E-03
IRON	2.7E+04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
LEAD	2.4E+02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total PCBs	7.5E-01	7.5E-03	1.1E-01	2.1E-02	9.4E-04	2.4E-02	4.1E-03
MANGANESE	7.4E+02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PHENANTHRENE	1.5E+00	1.4E-01	2.2E-02	1.2E-01	1.7E-02	4.9E-03	1.5E-02
SODIUM	1.7E+02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Fraction of crop intake as aboveground produce	8.6E-01
Fraction of crop intake as root crops (belowground	1.4E-01
Wet-to-dry weight conversion factor - aboveground produce (grams dry/grams wet)	1.3E-01
Wet-to-dry weight conversion factor - belowground produce (grams dry/grams wet)	2.2E-01

Table H4-D2
Contaminant Concentration in Above Ground Produce
Warehouse 2/3

$$\mathrm{Pr}_{ag} = Cs \times Br_{ag}$$

Symbol	Value	Description	Units
Cs	measured	Average soil concentration over exposure duration	mg/kg
Prag	chemical-specific	Concentration in aboveground produce due to root uptake	mg/kg DW
Br_{ag}	chemical-specific	Plant-soil bioconcentration factor for aboveground produce	unitless
Br_{forage}	chemical-specific	Plant-soil bioconcentration factor for aboveground produce - livestock foage and silage	unitless

Chemical	Cs (mg/kg)	Br_{ag}	Pr_{ag} - (mg/kg DW)
2-METHYLNAPHTHALENE	0.00E+00	0.00E+00	0.00E+00
ALUMINUM	2.11E+04	0.00E+00	0.00E+00
ARSENIC	1.25E+01	6.33E-03	7.93E-02
BENZO(A)ANTHRACENE	2.69E+00	2.02E-02	5.43E-02
BENZO(A)PYRENE	2.16E+00	1.11E-02	2.40E-02
BENZO(B)FLUORANTHENE	3.49E+00	1.00E-02	3.49E-02
BENZO(K)FLUORANTHENE	2.26E+00	1.02E-02	2.31E-02
BENZO[G,H,I]PERYLENE	1.14E+00	1.00E-02	1.14E-02
CARBAZOLE	2.74E-01	0.00E+00	0.00E+00
CHRYSENE	1.13E+00	1.87E-02	2.11E-02
COPPER	0.00E+00	0.00E+00	0.00E+00
DIBENZO(A,H)ANTHRACENE	3.13E-01	6.36E-03	1.99E-03
INDENO(1,2,3-CD)PYRENE	1.45E+00	3.90E-03	5.66E-03
IRON	2.75E+04	0.00E+00	0.00E+00
LEAD	2.43E+02	0.00E+00	0.00E+00
MANGANESE	7.44E+02	0.00E+00	0.00E+00
PCB-1016	0.00E+00	2.91E-02	0.00E+00
PCB-1221	0.00E+00	0.00E+00	0.00E+00
PCB-1232	0.00E+00	0.00E+00	0.00E+00
PCB-1242	0.00E+00	0.00E+00	0.00E+00
PCB-1248	0.00E+00	0.00E+00	0.00E+00
PCB-total	7.48E-01	1.00E-02	7.48E-03
PCB-1260	2.74E-01	0.00E+00	0.00E+00
PHENANTHRENE	1.50E+00	9.00E-02	1.35E-01
SODIUM	1.67E+02	0.00E+00	0.00E+00
THALLIUM	0.00E+00	8.58E-04	0.00E+00
VANADIUM	0.00E+00	0.00E+00	0.00E+00

Table H4-D3
Contaminant Concentration in Below Ground Produce
Warehouse 2/3

$$Pr_{bg} = Cs \times Br_{rootveg} \times VG_{rootveg}$$

Symbol	Value	Description	Units
Prbg	calculated	Concentration of COPC in belowground produce due to root uptake	mg COPC/kg DW
Cs	measured	Average soil concentration over exposure duration	mg/kg
$Br_{rootveg}$	chemical-specific	Plant-soil bioconcentration factor for belowground produce	unitless
$VG_{rootveg}$	chemical-specific	Empirical correction factor for belowground produce	unitless

Chemical	Cs (mg/kg in soil)	$Br_{rootveg}$	$VG_{rootveg}$	Pr_{bg} - (mg/kg)
2-METHYLNAPHTHALENE	0.00E+00	0.00E+00	1.00E+00	0.00E+00
ALUMINUM	2.11E+04	0.00E+00	1.00E+00	0.00E+00
ARSENIC	1.25E+01	8.00E-03	1.00E+00	1.00E-01
BENZO(A)ANTHRACENE	2.69E+00	2.11E+00	1.00E-02	5.68E-02
BENZO(A)PYRENE	2.16E+00	1.26E+00	1.00E-02	2.72E-02
BENZO(B)FLUORANTHENE	3.49E+00	1.66E+00	1.00E-02	5.79E-02
BENZO(K)FLUORANTHENE	2.26E+00	1.66E+00	1.00E-02	3.75E-02
BENZO[G,H,I]PERYLENE	1.14E+00	1.66E+00	1.00E-02	1.89E-02
CARBAZOLE	2.74E-01	0.00E+00	1.00E+00	0.00E+00
CHRYSENE	1.13E+00	2.05E+00	1.00E-02	2.32E-02
COPPER	0.00E+00	0.00E+00	1.00E+00	0.00E+00
DIBENZO(A,H)ANTHRACENE	3.13E-01	1.43E+00	1.00E-02	4.48E-03
INDENO(1,2,3-CD)PYRENE	1.45E+00	1.19E+00	1.00E-02	1.73E-02
IRON	2.75E+04	0.00E+00	1.00E+00	0.00E+00
LEAD	2.43E+02	0.00E+00	1.00E+00	0.00E+00
MANGANESE	7.44E+02	0.00E+00	1.00E+00	0.00E+00
PCB-1016	0.00E+00	1.45E+01	1.00E-02	0.00E+00
PCB-1221	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1232	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1242	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1248	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-total	7.48E-01	1.42E+01	1.00E-02	1.06E-01
PCB-1260	2.74E-01	0.00E+00	1.00E+00	0.00E+00
PHENANTHRENE	1.50E+00	1.49E+00	1.00E-02	2.24E-02
SODIUM	1.67E+02	0.00E+00	1.00E-02	0.00E+00
THALLIUM	0.00E+00	4.00E-04	1.00E+00	0.00E+00
VANADIUM	0.00E+00	0.00E+00	1.00E+00	0.00E+00

Table H4-E1
Summary of Contaminant Concentrations in Produce
345 kV Transmision Lines

Chemical	Concentration in Soil - Cs (mg/kg)	Concentration in Aboveground Produce (mg/kg DW)	Concentration in Belowground Produce (mg/kg DW)	Total Produce Concentration (dry-weight basis) (mg/kg)	Concentration in Aboveground Produce (mg/kg wet weight)	Concentration in Belowground Produce (mg/kg wet weight)	Total Produce Concentration (wet-weight basis) (mg/kg)
ALUMINUM	1.8E+04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
ARSENIC	1.1E+01	7.1E-02	9.0E-02	7.4E-02	9.0E-03	2.0E-02	1.1E-02
BENZO(A)PYRENE	3.4E-01	3.7E-03	4.2E-03	3.8E-03	4.7E-04	9.4E-04	5.4E-04
BENZO(K)FLUORANTHENE	3.7E-01	3.7E-03	6.1E-03	4.1E-03	4.7E-04	1.3E-03	5.9E-04
BENZO[G,H,I]PERYLENE	2.4E-01	2.4E-03	3.9E-03	2.6E-03	3.0E-04	8.7E-04	3.8E-04
BENZO(A)ANTHRACENE	3.0E-01	6.0E-03	6.3E-03	6.1E-03	7.6E-04	1.4E-03	8.5E-04
BENZO(B)FLOURANTHENE	3.0E-01	3.0E-03	5.0E-03	3.3E-03	3.8E-04	1.1E-03	4.8E-04
CARBAZOLE	2.4E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CHRYSENE	2.5E-01	4.7E-03	5.2E-03	4.8E-03	5.9E-04	1.1E-03	6.7E-04
INDENO(1,2,3-CD)PYRENE	2.4E-01	9.2E-04	2.8E-03	1.2E-03	1.2E-04	6.2E-04	1.9E-04
IRON	2.7E+04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MANGANESE	1.3E+03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PHENANTHRENE	5.3E-01	4.8E-02	7.9E-03	4.2E-02	6.0E-03	1.8E-03	5.4E-03
SODIUM	2.2E+02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
THALLIUM	6.9E-01	5.9E-04	2.8E-04	5.5E-04	7.5E-05	6.1E-05	7.3E-05
VANADIUM	4.1E+01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Fraction of crop intake as aboveground produce	8.6E-01
Fraction of crop intake as root crops (belowground	1.4E-01
Wet-to-dry weight conversion factor - aboveground produce (grams dry/grams wet)	1.3E-01
Wet-to-dry weight conversion factor - belowground produce (grams dry/grams wet)	2.2E-01

Table H4-E2
Contaminant Concentration in Above Ground Produce
345 kV Transmission Lines

$$\mathrm{Pr}_{ag} = Cs \times Br_{ag}$$

Symbol	Value	Description	Units
Cs	measured	Average soil concentration over exposure duration	mg/kg
Prag	chemical-specific	Concentration in aboveground produce due to root uptake	mg/kg DW
Br_{ag}	chemical-specific	Plant-soil bioconcentration factor for aboveground produce	unitless
Br_{forage}	chemical-specific	Plant-soil bioconcentration factor for aboveground produce - livestock foage and silage	unitless

Chemical	Cs (mg/kg)	Br_{ag}	Pr_{ag} - (mg/kg DW)
2-METHYLNAPHTHALENE	0.00E+00	0.00E+00	0.00E+00
ALUMINUM	1.77E+04	0.00E+00	0.00E+00
ARSENIC	1.13E+01	6.33E-03	7.13E-02
BENZO(A)ANTHRACENE	2.99E-01	2.02E-02	6.04E-03
BENZO(A)PYRENE	3.37E-01	1.11E-02	3.74E-03
BENZO(B)FLUORANTHENE	2.99E-01	1.00E-02	2.99E-03
BENZO(K)FLUORANTHENE	3.65E-01	1.02E-02	3.72E-03
BENZO[G,H,I]PERYLENE	2.37E-01	1.00E-02	2.37E-03
CARBAZOLE	2.35E-01	0.00E+00	0.00E+00
CHRYSENE	2.52E-01	1.87E-02	4.70E-03
COPPER	0.00E+00	0.00E+00	0.00E+00
DIBENZO(A,H)ANTHRACENE	0.00E+00	6.36E-03	0.00E+00
INDENO(1,2,3-CD)PYRENE	2.35E-01	3.90E-03	9.17E-04
IRON	2.75E+04	0.00E+00	0.00E+00
LEAD	0.00E+00	0.00E+00	0.00E+00
MANGANESE	1.30E+03	0.00E+00	0.00E+00
PCB-1016	0.00E+00	2.91E-02	0.00E+00
PCB-1221	0.00E+00	0.00E+00	0.00E+00
PCB-1232	0.00E+00	0.00E+00	0.00E+00
PCB-1242	0.00E+00	0.00E+00	0.00E+00
PCB-1248	0.00E+00	0.00E+00	0.00E+00
PCB-1254	0.00E+00	1.00E-02	0.00E+00
PCB-1260	0.00E+00	0.00E+00	0.00E+00
PHENANTHRENE	5.29E-01	9.00E-02	4.76E-02
SODIUM	2.17E+02	0.00E+00	0.00E+00
THALLIUM	6.90E-01	8.58E-04	5.92E-04
VANADIUM	4.04E+01	0.00E+00	0.00E+00

Table H4-E3
Contaminant Concentration in Below Ground Produce
345 kV Transmission Lines

$$\mathrm{Pr}_{bg} = Cs \times Br_{rootveg} \times VG_{rootveg}$$

Symbol	Value	Description	Units
Prbg	calculated	Concentration of COPC in belowground produce due to root uptake	mg COPC/kg DW
Cs	measured	Average soil concentration over exposure duration	mg/kg
$Br_{rootveg}$	chemical-specific	Plant-soil bioconcentration factor for belowground produce	unitless
$VG_{rootveg}$	chemical-specific	Empirical correction factor for belowground produce	unitless

Chemical	**Cs (mg/kg in soil)**	**$Br_{rootveg}$**	**$VG_{rootveg}$**	**Pr_{bg} - (mg/kg)**
2-METHYLNAPHTHALENE	0.00E+00	0.00E+00	1.00E+00	0.00E+00
ALUMINUM	1.77E+04	0.00E+00	1.00E+00	0.00E+00
ARSENIC	1.13E+01	8.00E-03	1.00E+00	9.02E-02
BENZO(A)ANTHRACENE	2.99E-01	2.11E+00	1.00E-02	6.31E-03
BENZO(A)PYRENE	3.37E-01	1.26E+00	1.00E-02	4.25E-03
BENZO(B)FLUORANTHENE	2.99E-01	1.66E+00	1.00E-02	4.96E-03
BENZO(K)FLUORANTHENE	3.65E-01	1.66E+00	1.00E-02	6.06E-03
BENZO[G,H,I]PERYLENE	2.37E-01	1.66E+00	1.00E-02	3.93E-03
CARBAZOLE	2.35E-01	0.00E+00	1.00E+00	0.00E+00
CHRYSENE	2.52E-01	2.05E+00	1.00E-02	5.17E-03
COPPER	0.00E+00	0.00E+00	1.00E+00	0.00E+00
DIBENZO(A,H)ANTHRACENE	0.00E+00	1.43E+00	1.00E-02	0.00E+00
INDENO(1,2,3-CD)PYRENE	2.35E-01	1.19E+00	1.00E-02	2.80E-03
IRON	2.75E+04	0.00E+00	1.00E+00	0.00E+00
LEAD	0.00E+00	0.00E+00	1.00E+00	0.00E+00
MANGANESE	1.30E+03	0.00E+00	1.00E+00	0.00E+00
PCB-1016	0.00E+00	1.45E+01	1.00E-02	0.00E+00
PCB-1221	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1232	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1242	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1248	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1254	0.00E+00	1.42E+01	1.00E-02	0.00E+00
PCB-1260	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PHENANTHRENE	5.29E-01	1.49E+00	1.00E-02	7.88E-03
SODIUM	2.17E+02	0.00E+00	1.00E-02	0.00E+00
THALLIUM	6.90E-01	4.00E-04	1.00E+00	2.76E-04
VANADIUM	4.04E+01	0.00E+00	1.00E+00	0.00E+00

Table H4-F1
Summary of Contaminant Concentrations in Produce
Bailey Farmhouse

Chemical	Concentration in Soil - Cs (mg/kg)	Concentration in Aboveground Produce (mg/kg DW)	Concentration in Belowground Produce (mg/kg DW)	Total Produce Concentration (dry-weight basis) (mg/kg)	Concentration in Aboveground Produce (mg/kg wet weight)	Concentration in Belowground Produce (mg/kg wet weight)	Total Produce Concentration (wet-weight basis) (mg/kg)
ALUMINUM	2.3E+04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
ARSENIC	7.2E+00	4.6E-02	5.8E-02	4.7E-02	5.7E-03	1.3E-02	6.7E-03
IRON	2.4E+04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
LEAD	6.2E+01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MANGANESE	5.2E+02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
SODIUM	1.4E+02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Fraction of crop intake as aboveground produce	8.6E-01
Fraction of crop intake as root crops (belowground	1.4E-01

Wet-to-dry weight conversion factor - aboveground produce (grams dry/grams wet)	1.3E-01
Wet-to-dry weight conversion factor - belowground produce (grams dry/grams wet)	2.2E-01

Table H4-F2
Contaminant Concentrations in Above Ground Produce
Bailey Farmhouse

$$\mathrm{Pr}_{ag} = Cs \times Br_{ag}$$

Symbol	Value	Description	Units
Cs	measured	Average soil concentration over exposure duration	mg/kg
Prag	chemical-specific	Concentration in aboveground produce due to root uptake	mg/kg DW
Br_{ag}	chemical-specific	Plant-soil bioconcentration factor for aboveground produce	unitless
Br_{forage}	chemical-specific	Plant-soil bioconcentration factor for aboveground produce - livestock foage and silage	unitless

Chemical	Cs (mg/kg)	Br_{ag}	Pr_{ag} - (mg/kg DW)
2-METHYLNAPHTHALENE	0.00E+00	0.00E+00	0.00E+00
ALUMINUM	2.32E+04	0.00E+00	0.00E+00
ARSENIC	7.20E+00	6.33E-03	4.56E-02
BENZO(A)ANTHRACENE	0.00E+00	2.02E-02	0.00E+00
BENZO(A)PYRENE	0.00E+00	1.11E-02	0.00E+00
BENZO(B)FLUORANTHENE	0.00E+00	1.00E-02	0.00E+00
BENZO(K)FLUORANTHENE	0.00E+00	1.02E-02	0.00E+00
BENZO[G,H,I]PERYLENE	0.00E+00	1.00E-02	0.00E+00
CARBAZOLE	0.00E+00	0.00E+00	0.00E+00
CHRYSENE	0.00E+00	1.87E-02	0.00E+00
COPPER	0.00E+00	0.00E+00	0.00E+00
DIBENZO(A,H)ANTHRACENE	0.00E+00	6.36E-03	0.00E+00
INDENO(1,2,3-CD)PYRENE	0.00E+00	3.90E-03	0.00E+00
IRON	2.43E+04	0.00E+00	0.00E+00
LEAD	6.22E+01	0.00E+00	0.00E+00
MANGANESE	5.22E+02	0.00E+00	0.00E+00
PCB-1016	0.00E+00	2.91E-02	0.00E+00
PCB-1221	0.00E+00	0.00E+00	0.00E+00
PCB-1232	0.00E+00	0.00E+00	0.00E+00
PCB-1242	0.00E+00	0.00E+00	0.00E+00
PCB-1248	0.00E+00	0.00E+00	0.00E+00
PCB-1254	0.00E+00	1.00E-02	0.00E+00
PCB-1260	0.00E+00	0.00E+00	0.00E+00
PHENANTHRENE	0.00E+00	9.00E-02	0.00E+00
SODIUM	1.41E+02	0.00E+00	0.00E+00
THALLIUM	0.00E+00	8.58E-04	0.00E+00
VANADIUM	0.00E+00	0.00E+00	0.00E+00

Table H4-F3
Contaminant Concentration in Below Ground Produce
Bailey Farmhouse

$$\mathrm{Pr}_{bg} = Cs \times Br_{rootveg} \times VG_{rootveg}$$

Symbol	Value	Description	Units
Prbg	calculated	Concentration of COPC in belowground produce due to root uptake	mg COPC/kg DW
Cs	measured	Average soil concentration over exposure duration	mg/kg
$Br_{rootveg}$	chemical-specific	Plant-soil bioconcentration factor for belowground produce	unitless
$VG_{rootveg}$	chemical-specific	Empirical correction factor for belowground produce	unitless

Chemical	**Cs (mg/kg in soil)**	**$Br_{rootveg}$**	**$VG_{rootveg}$**	**Pr_{bg} - (mg/kg)**
2-METHYLNAPHTHALENE	0.00E+00	0.00E+00	1.00E+00	0.00E+00
ALUMINUM	2.32E+04	0.00E+00	1.00E+00	0.00E+00
ARSENIC	7.20E+00	8.00E-03	1.00E+00	5.76E-02
BENZO(A)ANTHRACENE	0.00E+00	2.11E+00	1.00E-02	0.00E+00
BENZO(A)PYRENE	0.00E+00	1.26E+00	1.00E-02	0.00E+00
BENZO(B)FLUORANTHENE	0.00E+00	1.66E+00	1.00E-02	0.00E+00
BENZO(K)FLUORANTHENE	0.00E+00	1.66E+00	1.00E-02	0.00E+00
BENZO[G,H,I]PERYLENE	0.00E+00	1.66E+00	1.00E-02	0.00E+00
CARBAZOLE	0.00E+00	0.00E+00	1.00E+00	0.00E+00
CHRYSENE	0.00E+00	2.05E+00	1.00E-02	0.00E+00
COPPER	0.00E+00	0.00E+00	1.00E+00	0.00E+00
DIBENZO(A,H)ANTHRACENE	0.00E+00	1.43E+00	1.00E-02	0.00E+00
INDENO(1,2,3-CD)PYRENE	0.00E+00	1.19E+00	1.00E-02	0.00E+00
IRON	2.43E+04	0.00E+00	1.00E+00	0.00E+00
LEAD	6.22E+01	0.00E+00	1.00E+00	0.00E+00
MANGANESE	5.22E+02	0.00E+00	1.00E+00	0.00E+00
PCB-1016	0.00E+00	1.45E+01	1.00E-02	0.00E+00
PCB-1221	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1232	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1242	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1248	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PCB-1254	0.00E+00	1.42E+01	1.00E-02	0.00E+00
PCB-1260	0.00E+00	0.00E+00	1.00E+00	0.00E+00
PHENANTHRENE	0.00E+00	1.49E+00	1.00E-02	0.00E+00
SODIUM	1.41E+02	0.00E+00	1.00E-02	0.00E+00
THALLIUM	0.00E+00	4.00E-04	1.00E+00	0.00E+00
VANADIUM	0.00E+00	0.00E+00	1.00E+00	0.00E+00