

Updates and Errata to Website PDF Version, November 2008

**The Fate, Transport, and Ecological Impacts of Airborne Contaminants in
Western National Parks (USA)**

**Western Airborne Contaminants Assessment Project Final Report
Volume I (2008)**

Page Number	Reference	Correction
2-3	2 nd page of Key to Park Summaries	Description for key to sediment flux plot was modified to include units for SCP flux in number (no.) per unit area.
2-10 and 2-11; 4-59 and 4-68	Titles	Added “and Preserve” to “Denali National Park”
2-15	Inset in Sediment Flux plot for GLAC	Flux plot for SCPs: added “ <i>*SCP data for Snyder Lake from second core</i> “
Summary of Updates to Secondary Park Summaries (pages 2-33 to 2-45):		<ul style="list-style-type: none"> • Text referring to g-HCH as a historic-use pesticide (HUP) was corrected to refer to g-HCH as a current-use pesticide (CUP), EXCEPT on page 2-33 in Vegetation Contaminant Concentrations box. • Air Summary: concentration units for dry XAD were corrected from ng/g to pg/g for CRLA, LAVO, GRSA, BAND, and BIBE. • Air and Vegetation Summaries: SOC data was updated; some concentration values were corrected. Major changes in concentration values are listed below for each park.
2-33	Key to Vegetation Contaminant Concentrations	Second to last sentence: g-HCH is listed with historic-use pesticides, but it is a current-use pesticide. The summary plots of contaminant concentrations for each secondary park do have g-HCH grouped correctly with other current-use pesticides.
2-34	WRST	<p>Air Summary: PAH concentration data corrected to 221 pg/g dry XAD</p> <p>Vegetation Summary: Corrected concentration for PAHs (from 17-74 to below-detection-limit to 130 ng/g lipid in conifers, and from 43-4346 to 38-3660 ng/g lipid in lichens).</p>

Page Number	Reference	Correction
2-35	GLBA	<p>Air Summary: 2nd bullet changed to: “Low concentrations of CUPs triflualin (1.4 pg/g dry XAD) were detected.”</p> <p>Vegetation Summary: Removed PAHs from list of dominant SOCs detected in conifers; corrected reference to g-HCH from HUPS to CUPs</p>
2-36	KATM	<p>Air Summary: Reference to g-HCH as a HUP was corrected to CUP.</p> <p>Vegetation Summary: Minor correction for PAH concentrations.</p>
2-37	STLE	<p>Air Summary: Reference to g-HCH as a HUP was corrected to CUP.</p> <p>Vegetation Summary: Minor correction for PAH concentrations.</p>
2-38	NOCA	<p>Air Summary: Concentrations of chlorpyrifos corrected from 220 to 110 pg/g dry XAD; concentration of PAHs corrected from 192 to 1521 pg/g dry XAD.</p> <p>Vegetation Summary: Minor corrections for some concentration values.</p>
2-39	GRTE	<p>Air Summary: Concentration of PAHs corrected from 232 to 12 pg/g dry XAD.</p> <p>Vegetation Summary: Corrected concentration for PAHs (from 90-3300 to below-detection-limit to 931 ng/g lipid)</p>
2-40	CRLA	<p>Air Summary: Units corrected to pg/g dry XAD; concentration of a-HCH corrected from 120 to 230 pg/g dry XAD, and PAHs corrected from 191 to 721 pg/g dry XAD.</p> <p>Vegetation Summary: Minor corrections for some concentration values.</p>
2-41	LAVO	<p>Air Summary: Units corrected to pg/g dry XAD; concentration of PAHs corrected from 77 to 321 pg/g dry XAD</p> <p>Vegetation Summary: Corrected concentration for PAHs (from 90-3300 to below-detection-limit to 562 ng/g lipid); minor corrections for other concentration values.</p>
2-42	YOSE	<p>Air Summary: Concentration of PAHs corrected from 97 to 144 pg/g dry XAD, and dacthal from 36 to 360 pg/g dry XAD.</p> <p>Vegetation Summary: Minor corrections for some concentration values.</p>

Page Number	Reference	Correction
2-43	GRSA	Air Summary: Units corrected to pg/g dry XAD; concentration of PAHs corrected from 1342 to 1471 pg/g dry XAD. Vegetation Summary: Minor corrections for some concentration values.
2-44	BAND	Air Summary: Units corrected to pg/g dry XAD; concentration of PAHs corrected from 21 to 246 pg/g dry XAD, concentration of HCH changed to a-HCH with 110 pg/g dry XAD, and concentration of HCB (750 pg/g dry XAD) was added. Vegetation Summary: PAHs added to the list in the 2 nd bullet; minor corrections for some concentration values.
2-45	BIBE	Air Summary: Units corrected to pg/g dry XAD; concentration of PAHs corrected from 1491, 200, 276, 1 to 2091, 388, 11, and 11 pg/g dry XAD, 3 rd bullet changed to “Endosulfans (472-1096), HCB (460-1260), and DDE (n.d. to 43) ranked high compared with other WACAP parks,” in 4 th bullet, concentration of HCHs changed to a-HCH (56-150) and g-HCH (13-39), and trifluralin changed from 7-11 to 3-5. Vegetation Summary: Corrected reference to g-HCH from HUPS to CUPS; corrected concentration for PAHs (from 10-828 to below-detection-limit to 668 ng/g lipid).
4-7	Figure 4-6	Fish PBDEs: correct units are ng/g lipid; changed from ng/g wet weight
4-8	Section 4.2.2	SOCs in Air: 2 nd paragraph; last 2 sentences modified to remove references to heptachlor at NOCA and dieldrin at SEKI.
4-9 and 4-10	Figure 4-8	Regional Patterns of SOC in Ambient Air: Plots for malathion, heptachlor, and dieldrin were removed; remaining plots remade with updated data.
4-11	Figure 4-9	Simple Linear Regression of Individual SOC Determined in the XAD Resin by Latitude: Regression plots remade with updated data.

Typographical errors corrected:	
Page No.	Correction
Title Page	NPS WACAP web address: change “s” to “S”: http://www.nature.nps.gov/air/Studies/air_toxics/wacap.cfm
iii	WACAP Final Report Peer Reviewers: Kathy Tonnesson corrected to: Kathy Tonnessen, Research Coordinator, NPS Rocky Mtn. Cooperative Ecosystem Studies Unit, University of Montana, Missoula, MT
iv	National Park Service: Chris Shaver, Director, Air Resources Division corrected to Chief, Air Resources Division Elisabeth Waddell corrected to Elizabeth Waddell
4-13, 4-14, 4-30, 4-31	Added header with line and CHAPTER 4. CONTAMINANT DISTRIBUTION
5-43	Header text “CHAPTER 5. BIOLOGICAL AND ECOLOGICAL EFFECTS” right-justified
5-54	1 st paragraph, line 7, extra space removed: “w hole-body basis” to “whole-body basis”
5-64	Figure 5-25, x-axis label “DENA-Wonder”; removed extra “1” that was underneath the “E” in DENA.
5-81	Last bullet, line 1; comma inserted between “fish” and “from”: “Over half (77 of 136) of the individual fish, from 11 of the 14 WACAP lakes, ...”

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Volume II: Appendices (2008)

Page #	Action
Update:	
Title Page	A 2-page title page was added to Volume II.
Errata:	
ii	NPS WACAP website address for the online location of the WACAP Final Report: The “s” in “studies” should be a capital “S”; http://www.nature.nps.gov/air/Studies/air_toxics/wacap.cfm
3B-21	Last line in Table 3B-15; “refernce” should be “reference”
4A-33	Appendix 4A.11: BAND line: “Bandolier” should be “Bandelier”