

## Key Chromium-Related Health Studies and Scientific Literature

### Studies Specific to New Jersey:

- ***Medical Evaluation of Children and Adults of the Whitney Young Jr. School, Jersey City, New Jersey*** (December 1989) – NJ Dept. of Health, <http://www.state.nj.us/dep/dsr/chromium/young.pdf>
- ***An Assessment and Quantitative Uncertainty Analysis of the Health Risks to Workers Exposed to Chromium Contaminated Soils*** (1991) Paustenbach DJ, Meyer DM, Sheehan PJ et al. Toxicol. Ind. Health 7, 159-196 <http://tih.sagepub.com/cgi/content/abstract/7/3/159>
- ***The Health Hazards Posed By Chromium-Contaminated Soils in Residential and Industrial Areas: Conclusions of an Expert Panel*** (April 1991) Paustenbach DJ, Rinehart WE, Sheehan PJ, Reg. Toxic. and Pharm. 13, 195-222  
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- ***Chromite ore processing residue in Hudson County, New Jersey*** (May 1991) T Burke, J Fagliano, et. al. Environ. Health Perspect. 92: 131-137  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1519394/>
- ***Airborne Concentrations of Trivalent and Hexavalent Chromium from Contaminated Soils at unpaved and partially-Paved Commercial/Industrial Sites*** (January 1992) Falerios M, Schild K, Sheehan P et. al. J. Air & Waste Manage. Assoc. 42:40-48  
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- ***Chromium exposure assessment of outdoor workers in Hudson County, NJ*** (July 1992) Bukowski JA, Goldstein MD, Korn LR, et al. Sci. of the Total Environment, 122, 291-300  
[http://www.sciencedirect.com/science?\\_ob=ArticleURL&\\_udi=B6V78-48XT4VY-1SB&\\_user=8702323&\\_coverDate=07%2F29%2F1992&\\_alid=1131087850&\\_rdoc=8&\\_fmt=high&\\_orig=search&\\_cdi=5836&\\_sort=r&\\_docanchor=&\\_view=c&\\_ct=15&\\_acct=C000050221&\\_version=1&\\_urlVersion=0&\\_userid=8702323&\\_md5=77208c7492731d3c53d81f7ecb6f6ca1](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V78-48XT4VY-1SB&_user=8702323&_coverDate=07%2F29%2F1992&_alid=1131087850&_rdoc=8&_fmt=high&_orig=search&_cdi=5836&_sort=r&_docanchor=&_view=c&_ct=15&_acct=C000050221&_version=1&_urlVersion=0&_userid=8702323&_md5=77208c7492731d3c53d81f7ecb6f6ca1)
- ***Microenvironmental Analysis of Residential Exposure to Chromium-Laden Wastes in and Around New Jersey Homes*** (June 1992) Liroy PJ, Freeman NCG, Wainman T, et al. Risk Analysis 12(2), 287-299. <http://www3.interscience.wiley.com/journal/119328369/abstract>
- ***Residential Exposure to Chromium Waste – Urine Biological Monitoring in Conjunction With Environmental Exposure Monitoring*** (June/August 1992) Stern AH, Freeman NCG, Pleban P, et al. Env. Research 58, 147-162 [http://www.sciencedirect.com/science?\\_ob=ArticleURL&\\_udi=B6WDS-4G3K8RY-38&\\_user=8702323&\\_rdoc=1&\\_fmt=&\\_orig=search&\\_sort=d&\\_docanchor=&\\_view=c&\\_acct=C00](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WDS-4G3K8RY-38&_user=8702323&_rdoc=1&_fmt=&_orig=search&_sort=d&_docanchor=&_view=c&_acct=C00)

- ***Field Validation for Sampling and Analysis of Airborne Hexavalent Chromium*** (March 1993) Finley B, Fehling K, et al. *Appl. Occup. Environ. Hyg.* 8(3), 191-200  
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- ***Designing a biological monitoring program to assess community exposure to chromium: Conclusions of an expert panel*** (December 1993) Anderson RA, Colton T, Doull J et al. *J. Tox and Env. Health, Part A*, 40:4, 555-583  
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- ***Chromium Medical Surveillance Project: Final Technical Report*** (October 1994) - NJ Department of Health, Div. of Epidemiology, Jerald Fagliano and Jonathan Savrin,  
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- ***Urinary Excretion of Chromium Following Ingestion of Chromite-Ore Processing Residues in Humans: Implications for Biomonitoring*** (December 1994) Gargas ML, Norton RL, Harris MA, et al. *Risk Analysis*, Vol. 14, No. 6 <http://www3.interscience.wiley.com/journal/119276088/abstract>
- ***The Effect of Remediation of Chromium Waste Sites on Chromium Levels in Urine of Children Living in the Surrounding Neighborhood*** (August 1995) Freeman NCG, Wainman T, Lioy PJ, et al. *J. Air & Waste Manage. Assoc.* 45: 604-614  
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- ***Increased DNA-Protein Crosslinks in Lymphocytes of Residents Living in Chromium-Contaminated Areas*** (December 1995) Taioli E, Zhitkovich A, Kinney P et. al. *Biological Trace Element Research*, Vol. 50, 175-180 <http://www.springerlink.com/content/65u4r8674w185334/>
- ***Monitoring Human Lymphocytic DNA-Protein Cross-links as Biomarkers of Biologically Active Doses of Chromate*** (October 1996) Costa M, Zhitkovich A, et. al. *Env. Health Perspect.* 104(5)  
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- ***Background Air Concentrations of Cr(VI) in Hudson County, New Jersey: Implications for Setting health-based Standards for Cr(VI) in Soil*** (May 1997) Scott PK, Finley BL, Harris MA et al. *J. Air & Waste Manage. Assoc.* 47:592-600  
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[orig=search& cdi=6999& sort=r& docanchor=&view=c& ct=64& acct=C000050221& version=1& urlVersion=0& userid=8702323&md5=86f57547593b321e62460ad9cdba549a](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1533240/pdf/envhper00535-0107.pdf)

- ***The Association of Chromium in Household Dust with Urinary Chromium in Residences Adjacent to Chromate Production Waste Sites*** (December 1998) Stern AH, Fagliano JA, Savrin JE, et. al., *Env. Health Perspectives*, Vol 106, Num. 12  
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- ***Characterization of Hexavalent Chromium Concentrations in Household Dust in Background Areas*** (March 2009) – EOHSI and NJDEP, Office of Science and Research,  
<http://www.state.nj.us/dep/dsr/chromium/bckgrd-dust-study-report.pdf>
- ***Derivation of an Ingestion-Based Soil Remediation Criterion for Cr<sup>+6</sup> Based on the NTP Chronic Bioassay Data for Sodium Dichromate Dihydrate*** (June 2009) - NJDEP Office of Science, Alan Stern, Dr. P.H., <http://www.state.nj.us/dep/dsr/chromium/ingestion-cr.pdf>

#### **Studies on Hexavalent Chromium in Other Communities:**

- ***Evaluation of Exposure to Historic Air Releases From the Abex/Remco Hydraulics Facility, Willits, Mendocino County, California*** (Final July 2004) - California Department of Health Services, Environmental Health Investigations Branch (EHIB) for ATSDR,  
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- ***Evaluation of Health Studies Possibilities and Limitations at the Abex/Remco Hydraulics Facility*** (July 2006) - California Department of Health Services, Environmental Health Investigations Branch (EHIB) for ATSDR, <http://www.atsdr.cdc.gov/HAC/pha/AbexRemcoHydraulicsFacility/Abex-RemcoHydraulicsHC091906.pdf>
- ***Expert Panel Report: Recommendations for Conducting Medical Monitoring for Residents of Willits, California and Workers Exposed to Hexavalent Chromium and Volatile Organic Compounds from the Abex/Remco Hydraulics Facility*** (November 2006) – Robert Harrison, UC San Francisco, Division of Occupational and Environmental Medicine,  
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- ***Review of Cancer Rates in the Vicinity of Chrome Crankshaft Company and J and S Chrome Plating Company*** (January 2003) - California Dept. of Health Services, EHIB, for ATSDR – Marilyn Underwood, PhD and Sumi Hoshiko, MPH (principal investigators), [http://www.atsdr.cdc.gov/HAC/PHA/chromecrankshaft/jsc\\_toc.html](http://www.atsdr.cdc.gov/HAC/PHA/chromecrankshaft/jsc_toc.html)
- ***Summary of Evaluation of Exposure to Aerial Emissions from Chrome Crankshaft Company and J&S Chrome Plating Company*** (December 2003) - California Dept. of Health Services, EHIB, for ATSDR, <http://www.ehib.org/projects/SuvaAirEnglish.pdf>
- ***Asthma and Related Respiratory Conditions Among Children: A Study Concerning Attending School Near Two Chromium Plating Facilities*** (February 2005) - California Dept. of Health Services, EHIB, for ATSDR – Marilyn Underwood, PhD (principal investigator), <http://www.ehib.org/cma/projects/CCHealthStudy.pdf>
- ***Letter Health Consultation: Evaluation of Chromium in Private Wells, West County Road 112, Midland County, Texas*** (June 2009) – Texas Department of State Health Services for ATSDR, ([http://www.tceq.state.tx.us/assets/public/remediation/variousremediationsites/westcr112/cr112\\_health\\_consult\\_060309.pdf](http://www.tceq.state.tx.us/assets/public/remediation/variousremediationsites/westcr112/cr112_health_consult_060309.pdf))

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### Cr<sup>VI</sup> Carcinogenesis –

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### Chromium (General) –

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- **NIOSH Hexavalent Chromium Criteria Document Update: Occupational Exposure to Hexavalent Chromium, External Review Draft**, September 2008, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health <http://origin.cdc.gov/niosh/review/public/144/pdfs/DRAFT-Criteria-Document-Update-Occupational-Exposure-to-Hexavalent-Chromium.pdf>