



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

Northwest Regional Office, 3190 - 160th Ave S.E. • Bellevue, Washington 98008-5452 • (206) 649-7000

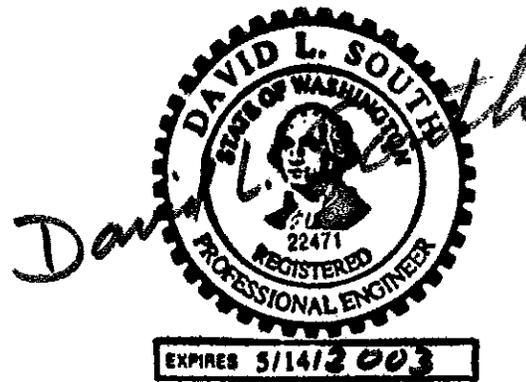
**Professional Engineer's Statement  
Everett Smelter Cleanup, 2000-2001**

Sampling and soil remediation were carried out at the following homes within the Everett Smelter Site during the years 2000 and 2001:

<u>Address</u>	<u>Owner</u>
Muriel Jones	110 Bridgeway
Andrew Michels	235 Bridgeway
Jeanette Mempa	236 Bridgeway
Thomas, Christine & Ronnie	240 Bridgeway
Martha Watkins	244 Bridgeway
Joanne Felmer	2803 Medora Way
Terry Tavares & Linda Guy-Tavares	2811 Medora Way
Duane & Edna Rapelje	2817 Medora Way
Dave & Rene Goodrich	2818 Medora Way
Ron & Bonnie Sylvester	2830 Medora Way
Anh Black	528 Hawthorne
Steve & Sherrie Wamba	415 Legion Drive
Gary & Darlene Bunger & Sandra Kane	112 Skyline Drive
Michael Paeth	116 Skyline Drive
Randy Hall	212 Skyline Drive
Willy Pompey	215 Skyline Drive
Dorothy Larson	218 Skyline Drive
Bob & Peggy Redline	221 Skyline Drive
Michael & Sheila Crehan	222 Skyline Drive
Kurt Bertilson	230 Skyline Drive
Louise Hiller	302 Skyline Drive
Margie Hogle	303 Skyline Drive
Fred Brown	307 Skyline Drive
Jackie Robinett	308 Skyline Drive
Al Vandebosch	316 Skyline Drive
Al Sorenson	320 Skyline Drive
Jo Newland	323 Skyline Drive
John & Christina Bull	328 Skyline Drive

Based on the results of testing and inspections, it is my opinion that the soil remediation carried out at these homes was performed in substantial compliance with the plans, specifications, and related documents governing the work.

Remediation work remaining to be done at these homes includes evaluation of crawl space data and addressing crawl spaces as necessary and carpet and duct cleaning. Some plant replacement also remains to be done and will be done this Spring.



# Washington Department of Ecology Everett Smelter Site 2000-2001 Cleanup

## Details of Cleanup Activities

The Department of Ecology (Ecology) targeted the cleanup of the yards of 24 homes, within the Everett Smelter Site, during the 2000-2001 biennium. The cleanup was conducted according to the *Everett Smelter Site: Integrated Final Cleanup Action Plan and Final Environmental Impact Statement for the Upland Area*.

This report describes the cleanup actions that were conducted, what arsenic-contaminated soil was removed and where it remains, for the following location:

Property Owner: Kurt Bertilson

Address:  
230 Skyline Drive  
Everett, WA 98201

Snohomish County  
State of Washington  
Tax Parcel No. # 5203-000-011-0001

This property was divided by Ecology into three Decision Units, A, B, and C, as shown on the attached map, for purposes of pre-cleanup sampling and decision-making regarding the depth to which excavation was required. The following is a summary of the work done in the remediation of the property within each of the decision units.

### Decision Unit: A

Results of pre-cleanup sampling indicated 24 inches of soil were to be excavated from within this decision unit. Attachment B shows that below 24 inches, results of composite sample analyses are below the remediation level of 150 parts per million (ppm). Because the soil below 24 inches contains arsenic levels below the cleanup level of 20 ppm, a geofabric marker was not placed.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 24 inches except the excavation was sloped 1:1 away from the curb along Skyline Drive, in order to maintain the structural integrity of the curb and the street. All

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existing trees and bushes were removed, and soil was removed from planters along the house. The owner had previously removed the concrete driveway. Soil was removed to a depth of 24 inches from this location. The wood retaining wall at the south side of the driveway was removed in order to facilitate excavation, and was later put back into place. The concrete sidewalk was also removed to facilitate excavation, and was later replaced. After excavation of the decision unit was completed, backfilling with clean backfill material was carried out, as described in the *Specifications for Everett Residential Soil Remediation*. Topsoil was then placed, and new sod was planted.

#### Decision Unit: B

Results of pre-cleanup sampling indicated 18 inches of soil were to be excavated from within this decision unit. Attachment B shows that below 18 inches, results of composite sample analyses are below the remediation levels of 60 and 150 ppm. However, because the soil below 18 inches contains arsenic levels above the cleanup level of 20 ppm, a geofabric marker was placed. In order to facilitate excavation, the wood fence along the north boundary of the property was removed. Upon the completion of excavation, the fence was replaced.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 18 inches. Exceptions were along the foundations of the garage and house where the excavation was sloped 1:1 in order to maintain the structural integrity of those structures. All plants and bushes were removed. After placing a geofabric marker, backfilling with clean backfill material was carried out, as described in the *Specifications for Everett Residential Soil Remediation*. Topsoil was then placed, and new sod was planted.

#### Decision Unit: C

Results of pre-cleanup sampling indicated 24 inches of soil were to be excavated from within this decision unit. Attachment B shows that below 24 inches, results of composite sample analyses are below the remediation level of 150 ppm. However, because the soil below 24 inches contains arsenic levels above the cleanup level of 20 ppm, a geofabric marker was placed. In order to facilitate excavation, the wood fence along the north boundary of the property was removed. Upon the completion of excavation, the fence was replaced. A small wooden shed was removed by the owner prior to the start of excavation; this will be put back in place by the owner at some later date.

Field measurements by the Ecology on-site coordinator confirmed that soil was removed to a depth of 24 inches. The exception was within the dripline of the tree on the adjacent property to the north where only the existing sod was removed and a few inches of soil. Beyond the dripline, 24 inches were removed. All plants and bushes were removed. After placing a geofabric marker, backfilling with clean backfill material was carried out,

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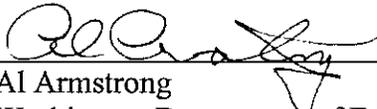
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as described in the *Specifications for Everett Residential Soil Remediation*. Topsoil was then placed, and new sod was planted.

  
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Al Armstrong  
Washington Department of Ecology

December 18, 2000

Note: As of December 18, 2000, replacement trees or bushes had not been planted. This was completed on February 12, 2001.

  
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Dan Cargill  
Washington Department of Ecology

April 9, 2001

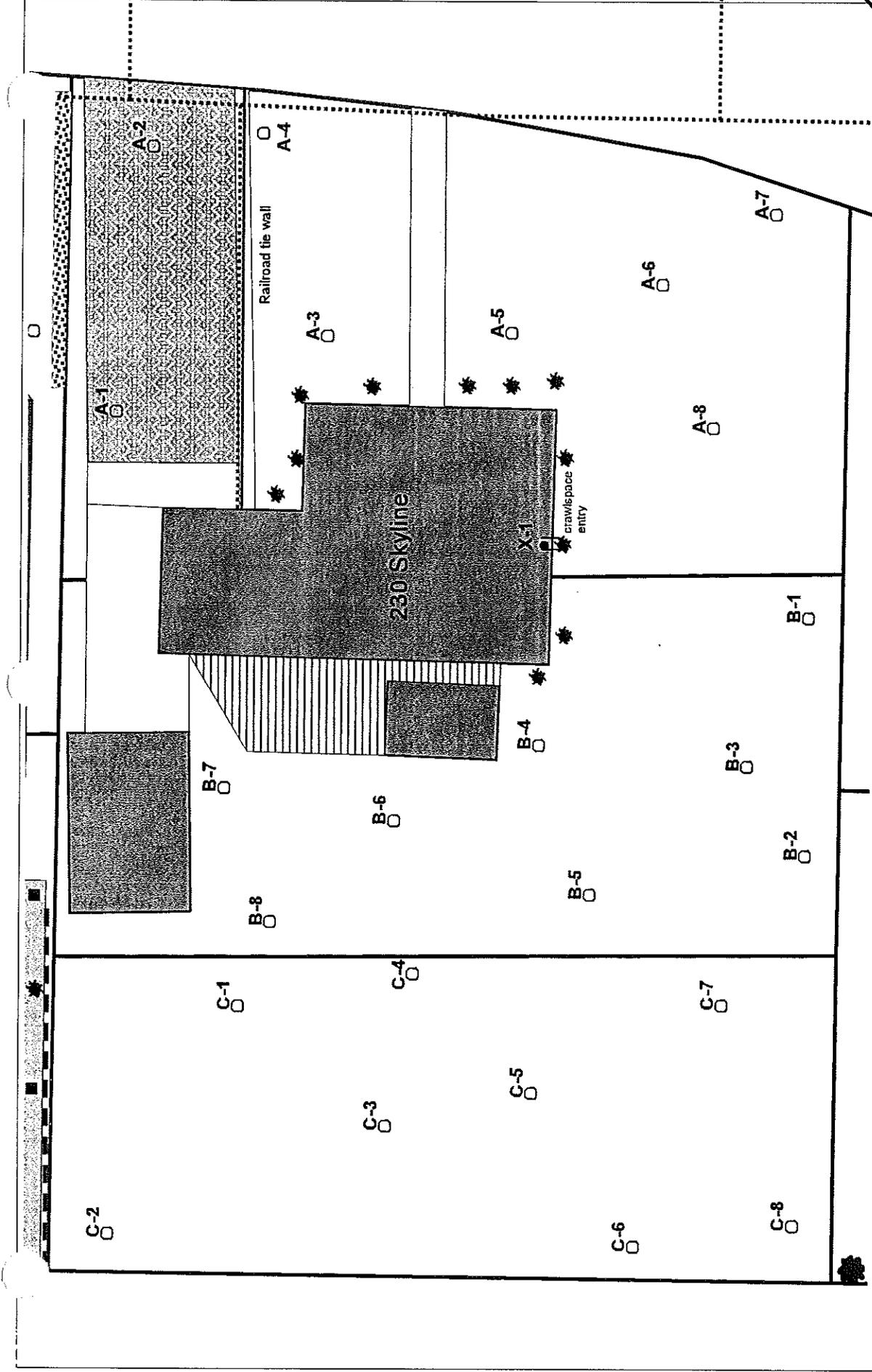
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Attachments: Site Map  
Graphs of Arsenic Concentration vs. Depth (1 page)  
Graph Explanation

Note: If the attachments listed above do not accompany this document, copies may be obtained from Ecology. Please contact Sally Perkins, Central Files of Ecology's Northwest Regional Office (NWRO), at (425) 649-7190 for information on obtaining copies.

cc: Ecology Central Files, NWRO  
Mary Sue Wilson, Assistant Attorney General  
Mike Young, Snohomish Health District  
City of Everett  
Snohomish PUD  
Northeast Everett Community Organization  
Northwest Everett Neighborhood Association





# 230 Skyline

Everett Smelter Homesite Cleanup

Source: Snohomish Health District



Not to scale

- Crawl space Samples
- DU Samples



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