

August 18, 2006

Halah Voges  
The RETEC Group, Inc.  
1011 SW Klickitat Way, Suite 207  
Seattle, Washington 98134-1162

**RE: WEEKLY AIR AND NOISE MONITORING REPORT**  
**JULY 3 - JULY 8, 2006**  
Levee Zone Interim Action  
Skykomish, Washington

Ms. Voges,

This document represents the sixth report of weekly air and noise monitoring data for the BNSF Skykomish levee zone interim action for the town of Skykomish, Washington conducted by Argus Pacific, Inc. (Argus Pacific) during the week of July 3 through July 8, 2006. The purpose of this report is to summarize and interpret air and noise monitoring data collected in the City of Skykomish during the levee zone interim action project conducted by The RETEC Group (RETEC). Argus Pacific conducted the monitoring in accordance with the BNSF Skykomish Air and Noise Monitoring Plan issued by Argus Pacific on June 20, 2006.

### **WORK ACTIVITIES**

Argus Pacific collected chemical and respirable dust samples and noise measurements on July 6, 2006. Due to the July 4<sup>th</sup> Holiday, Argus Pacific collected only one day of monitoring data for that week. RETEC technicians collected respirable dust samples and noise measurements on July 5 and 7. Construction and monitoring activities were also conducted on Saturday July 8, 2006.

During sampling, workers placed a plastic barrier in the river, excavated the levy, and began lifting homes for removal. Trucks hauled the excavated soil to the railyard where it was screened and sorted. A water truck wetted roadways and a street sweeper removed rocks from the roadway.

### **SAMPLING METHODOLOGY**

All samples were collected in accordance with the methods specified in the BNSF Skykomish Air and Noise Monitoring Plan. Please refer to this Plan for specific details on sampling methodology.

On July 6, 2006, Argus Pacific collected air samples at the northwest corner of the railyard and on the west side of the bridge directly east of the excavation area. Samples were analyzed for lead, arsenic, petroleum hydrocarbons (Naphthas), polynuclear aromatic hydrocarbons (PAHs), and diesel particulate.

Argus Pacific also conducted respirable dust monitoring at both of the above locations. On days during the week that Argus Pacific was not on site, RETEC employees conducted respirable dust monitoring at the railyard and bridge. To survey noise levels during construction and equipment operations, Argus Pacific and RETEC also collected noise measurements using a Quest handheld sound level meter.

Approximate air sample locations are indicated on the attached Air Monitoring Sample Locations Plan.

## SAMPLING RESULTS

A detectable concentration of diesel particulate was found in the railyard sample. None of the other target compounds were identified at or above the laboratory limit of detection. Respirable dust concentrations and noise levels were below project action limits during all sampling days. Laboratory results and dust monitoring data are included as attachments.

**JULY 6, 2006**

### RAILYARD SAMPLES – HAULING DIRT

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
0706-RY-LA	Lead	481 minutes	2.1 µg/m <sup>3</sup>	<2.1 µg/m <sup>3</sup>	50 µg/m <sup>3</sup>
	Arsenic	481 minutes	2.1 µg/m <sup>3</sup>	<2.1 µg/m <sup>3</sup>	10 µg/m <sup>3</sup>
0706-FB-LA	Lead	Field Blank	2.0 µg/sample	ND	NA
	Arsenic	Field Blank	2.0 µg/sample	ND	NA
0706-RY-N	Naphthas	481 minutes	0.52 mg/m <sup>3</sup>	<0.52 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>
0706-FB-N	Naphthas	Field Blank	0.01 mg/sample	ND	NA
0706-RY-DP	Diesel Particulate (as Elemental Carbon)	481 minutes	1.4 µg/m <sup>3</sup>	1.6 µg/m <sup>3</sup>	20 µg/m <sup>3</sup>
0706-FB-DP	Diesel Particulate (as Elemental Carbon)	Field Blank	1.3 µg/sample	ND	NA
0706-RY-PAH	PAHs (as benzene solubles)	481 minutes	0.021 mg/m <sup>3</sup>	<0.021 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>
0706-FB-PAH	PAHs (as benzene solubles)	Field Blank	0.02 mg/sample	ND	NA

**BRIDGE SAMPLES – EXCAVATING LEVEE, PLACING PLASTIC BARRIER IN RIVER,  
AND LIFTING HOUSES**

SAMPLE NUMBER	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
0706-B-LA	Lead	480 minutes	2.1 µg/m <sup>3</sup>	<2.1 µg/m <sup>3</sup>	50 µg/m <sup>3</sup>
	Arsenic	480 minutes	2.1 µg/m <sup>3</sup>	<2.1 µg/m <sup>3</sup>	10 µg/m <sup>3</sup>
0706-B-N	Naphthas	480 minutes	0.52 mg/m <sup>3</sup>	<0.52 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>
0706-B-DP	Diesel Particulate (as Elemental Carbon)	480 minutes	1.4 µg/m <sup>3</sup>	<1.4 µg/m <sup>3</sup>	20 µg/m <sup>3</sup>
0706-B-PAH	PAHs (as benzene solubles)	480 minutes	0.022 mg/m <sup>3</sup>	<0.022 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>

**JUNE 5 THROUGH JUNE 8, 2006**

**RESPIRABLE DUST RESULTS - RAILYARD**

SAMPLE NUMBER	DATE COLLECTED	PEAK CONCENTRATION (ONE MINUTE)	AVERAGE CONCENTRATION	MONITORING PLAN LIMIT
DataRam4, Serial #D417, Tag #21	July 5, 2006	111 µg/m <sup>3</sup>	22.5 µg/m <sup>3</sup>	5,000 µg/m <sup>3</sup>
DataRam4, Serial #D417, Tag #23	July 7, 2006	962 µg/m <sup>3</sup>	8.5 µg/m <sup>3</sup>	
DataRam4, Serial #D417, Tag #24	July 8, 2006	64 µg/m <sup>3</sup>	5.2 µg/m <sup>3</sup>	

**RESPIRABLE DUST RESULTS - BRIDGE**

SAMPLE NUMBER	DATE COLLECTED	PEAK CONCENTRATION (ONE MINUTE)	AVERAGE CONCENTRATION	MONITORING PLAN LIMIT
DataRam4, Serial #D417, Tag #22	July 6, 2006	207 µg/m <sup>3</sup>	7.8 µg/m <sup>3</sup>	5,000 µg/m <sup>3</sup>

**JULY 6, 2006**

**NOISE MONITORING RESULTS**

LOCATION	ACTIVITY	SOUND LEVEL AT PROPERTY LINE OR 50 FEET	MONITORING PLAN LIMIT
Across tracks from railyard	Screening/moving dirt	55-60 dB	90 dB
At bridge	Placing plastic in river and digging levee	85 dB	
At street corner next to Stove Shop	Trucks passing	60-82 dB	
At main road next to truck exit from railyard	Screening/Hauling dirt	70-75 dB	

**CONCLUSIONS**

Based on this data, levee excavation, installing plastic barrier in river, and dirt hauling and screening conducted during the week of July 3 through 8, 2006 did not release the contaminants of concern or respirable dust in concentrations above the project action limits specified in the BNSF Skykomish Air and Noise Monitoring Plan for the areas monitored. In addition, noise levels documented during activities that week were below the project action limit for community noise in the areas monitored.


We appreciate the opportunity to be of service to you. Please contact us at (206) 285-3373 if you have questions regarding this report, or if you require additional information.

Sincerely,



Alex Peck  
Industrial Hygienist

Reviewed by,



Elisabeth Black  
CIH

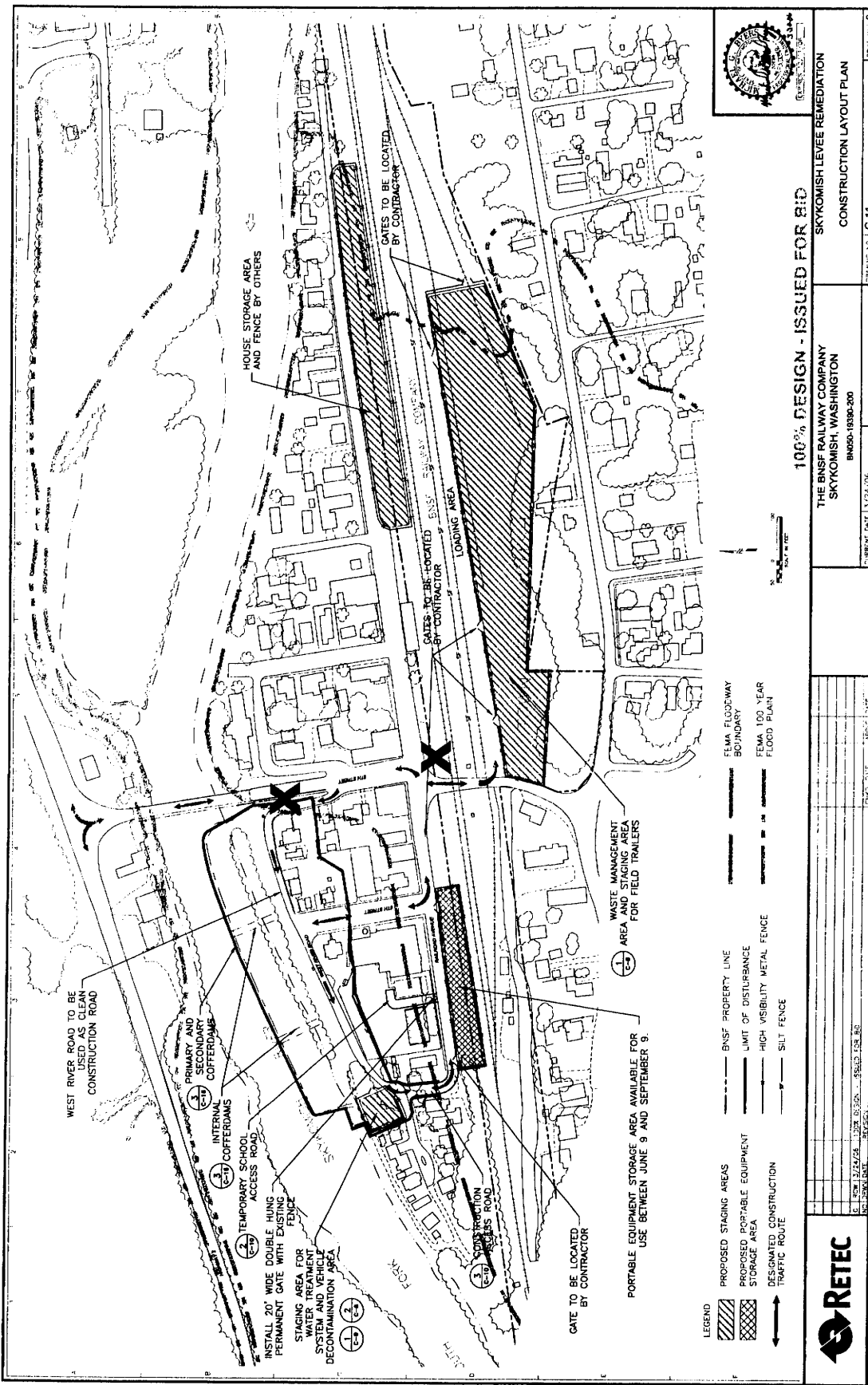
***Attachments:***

Sample Location Plan (07/5/06 - 07/8/06)

Laboratory Certificates of Analysis

DataChem Laboratories, Batch #061-3492-01  
DataChem Laboratories, Batch #061-3492-02  
DataChem Laboratories, Batch #061-3492-03  
DataChem Laboratories, Batch #061-3492-04

DataRam4 data for instrument D-417 (07/05/06)  
DataRam4 data for instrument D-417 (07/06/06)  
DataRam4 data for instrument D-417 (07/07/06)  
DataRam4 data for instrument D-417 (07/08/06)



Air Monitoring Sample Locations  
 July 6, 2006  
 Argus Pacific, Inc.

X = Air Monitoring Locations