

September 19, 2006

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

RE: WEEKLY AIR AND NOISE MONITORING REPORT
AUGUST 7 – AUGUST 12, 2006
Levee Zone Interim Action
Skykomish, Washington

Ms. Voges,

This document represents the eleventh 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 August 7 through August 12, 2006. The purpose of this report is to summarize and interpret air and noise sampling data collected in the City of Skykomish during the levee zone interim action conducted by The RETEC Group (RETEC). Argus Pacific conducted monitoring in accordance with the BNSF Skykomish Air and Noise Monitoring Plan issued by Argus Pacific on June 20, 2006, and amended on August 5, 2006.

WORK ACTIVITIES

Argus Pacific collected chemical and respirable dust samples and noise measurements on August 7 and August 10, 2006. RETEC technicians collected respirable dust samples and noise measurements on August 8, 9, 11, and 12 of that week.

During sampling, workers excavated soils and other materials near the bridge, trucks moved and hauled dirt from the levee to the railyard, and workers engaged in contaminated water cleanup. 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 August 7, 2006, Argus Pacific collected air samples at the southeast exit from the railyard and on the west side of the bridge directly east of the excavation, in a downwind direction relative to construction activities. Samples were analyzed for lead, arsenic, petroleum hydrocarbons (Naphthas), polynuclear aromatic hydrocarbons (PAHs), and diesel particulate. On August 10, 2006, Argus Pacific collected samples for lead, arsenic, and Naphthas in the same locations, also in a downwind direction relative to construction activities.

Argus Pacific also conducted respirable dust monitoring and community noise monitoring at both of the aforementioned locations. Community noise monitors were placed at the southeast exit from the railyard and at the southeast corner of the bridge, in a downwind direction relative to construction activities. On days during the week that Argus Pacific was not on site (August 8, 9, 11, 12), RETEC employees conducted respirable dust monitoring and community noise monitoring at the same bridge location. RETEC placed the second set of instruments for respirable dust monitoring and community noise monitoring at the northwest corner of the railyard instead of the southeast corner of the railyard to address tourist and public traffic at the intersection of Railroad Avenue and 5th Street.

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

SAMPLING RESULTS

A detectable concentration of diesel particulate matter was found in the sample collected at the bridge on August 7, 2006. None of the other target compounds were identified at or above the laboratory limit of detection at either of the two sampling stations. Respirable dust concentrations and community noise levels were below project action limits during sampling for the entire week. Laboratory results, and dust and noise monitoring data are attached.

AUGUST 7, 2006

RAILYARD (SE EXIT) SAMPLES – HAULING AND STOCKPILING DIRT

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
0807-RS-LA	Lead	480 minutes	2.1 µg/m ³	<2.1 µg/m ³	50 µg/m ³
	Arsenic	480 minutes	3.1 µg/m ³	<3.1 µg/m ³	10 µg/m ³
0807-FB-LA	Lead	Field Blank	2.0 µg/sample	ND	NA
	Arsenic	Field Blank	3.0 µg/sample	ND	NA
0807-RS-N	Naphthas	480 minutes	0.53 mg/m ³	<0.53 mg/m ³	100 mg/m ³
0807-FB-N	Naphthas	Field Blank	0.01 mg/sample	ND	NA
0807-RS-DP	Diesel Particulate (as Elemental Carbon)	480 minutes	1.4 µg/m ³	<1.4 µg/m ³	20 µg/m ³
0807-FB-DP	Diesel Particulate (as Elemental Carbon)	Field Blank	1.3 µg/sample	ND	NA
0807-RS-P	PAHs (as benzene solubles)	480 minutes	0.021 mg/m ³	<0.021 mg/m ³	0.2 mg/m ³
0807-FB-P	PAHs (as benzene solubles)	Field Blank	0.02 mg/m ³	ND	NA

BRIDGE SAMPLES – EXCAVATING, HAULING DIRT, CLEANING UP CONTAMINATED WATER

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
0807-B-LA	Lead	473 minutes	2.1 µg/m ³	<2.1 µg/m ³	50 µg/m ³
	Arsenic	473 minutes	3.2 µg/m ³	<3.2 µg/m ³	10 µg/m ³
0807-B-N	Naphthas	473 minutes	0.53 mg/m ³	<0.53 mg/m ³	100 mg/m ³
0807-B-DP	Diesel Particulate (as Elemental Carbon)	473 minutes	1.4 µg/m ³	2.6 µg/m ³	20 µg/m ³
0807-B-P	PAHs (as benzene solubles)	473 minutes	0.021 mg/m ³	<0.021 mg/m ³	0.2 mg/m ³

AUGUST 10, 2006

RAILYARD SAMPLES – HAULING AND STOCKPILING DIRT

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
0810-RS-LA	Lead	486 minutes	2.1 µg/m ³	<2.1 µg/m ³	50 µg/m ³
	Arsenic	486 minutes	2.1 µg/m ³	<2.1 µg/m ³	10 µg/m ³
0810-RS-N	Naphthas	486 minutes	0.51 mg/m ³	<0.51 mg/m ³	100 mg/m ³

BRIDGE SAMPLES – EXCAVATING, HAULING DIRT, CLEANING UP CONTAMINATED WATER

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
0810-B-LA	Lead	490 minutes	2.0 µg/m ³	<2.0 µg/m ³	50 µg/m ³
	Arsenic	490 minutes	2.0 µg/m ³	<2.0 µg/m ³	10 µg/m ³
0810-B-N	Naphthas	490 minutes	0.51 mg/m ³	<0.51 mg/m ³	100 mg/m ³

AUGUST 7 THROUGH AUGUST 12, 2006

RESPIRABLE DUST MONITORING RESULTS - RAILYARD

SAMPLE NUMBERS	DATE SAMPLE COLLECTED	PEAK CONCENTRATION (ONE MINUTE)	AVERAGE CONCENTRATION	MONITORING PLAN LIMIT
DataRam4, Serial #D417 Tag 49	August 7, 2006	369 µg/m ³	14.3 µg/m ³	5,000 µg/m ³
DataRam4, Serial #D417 Tag 50	August 8, 2006	99 µg/m ³	14.3 µg/m ³	
DataRam4, Serial #D417 Tag 51	August 9, 2006	98 µg/m ³	7.6 µg/m ³	
DataRam4, Serial #D417 Tag 52	August 10, 2006	694 µg/m ³	13.2 µg/m ³	
DataRam4, Serial #D417 Tag 53	August 11, 2006	117 µg/m ³	10.2 µg/m ³	
DataRam4, Serial #D417 Tag 54	August 12, 2006	117 µg/m ³	12.3 µg/m ³	

RESPIRABLE DUST MONITORING RESULTS – BRIDGE

SAMPLE NUMBERS	DATE SAMPLE COLLECTED	PEAK CONCENTRATION (ONE MINUTE)	AVERAGE CONCENTRATION	MONITORING PLAN LIMIT
DataRam4, Serial #D416 Tag 35	August 7, 2006	99 µg/m ³	10.0 µg/m ³	5,000 µg/m ³
DataRam4, Serial #D416 Tag 36	August 8, 2006	44 µg/m ³	10.0 µg/m ³	
DataRam4, Serial #D416 Tag 37	August 9, 2006	369 µg/m ³	13.7 µg/m ³	
DataRam4, Serial #D416 Tag 38	August 10, 2006	30 µg/m ³	5.1 µg/m ³	
DataRam4, Serial #D416 Tag 39	August 11, 2006	24 µg/m ³	6.0 µg/m ³	
DataRam4, Serial #D416 Tag 40	August 12, 2006	35 µg/m ³	8.7 µg/m ³	

AUGUST 8, 2006

NOISE MONITORING RESULTS FROM HAND-HELD QUEST SOUND LEVEL METER

LOCATION	ACTIVITY	SOUND LEVEL AT PROPERTY LINE OR 50 FEET	MONITORING PLAN LIMIT
Southeast railyard exit for trucks (RS air monitoring location)	Rocks being dumped into loader bucket	80-86 dB	85 dB
	Soil being dumped into loader bucket	70-76 dB	
	Power screener	83 dB	

AUGUST 11, 2006

NOISE MONITORING RESULTS FROM HAND-HELD QUEST SOUND LEVEL METER

LOCATION	ACTIVITY	SOUND LEVEL AT PROPERTY LINE OR 50 FEET	MONITORING PLAN LIMIT
West side of N 5 th St, south of bridge	Rock crusher (running)	80-88 dB	85 dB
	Rocks being loaded into rock crusher	98 dB	

COMMUNITY NOISE MONITORING - RAILYARD

DATE OF MONITORING	AVERAGE NOISE LEVEL	MAXIMUM NOISE LEVEL	MONITORING PLAN LIMIT
August 7, 2006	78.2 dB	114.9 dB	85 dB
August 8, 2006	77.1 dB	112.8 dB	
August 9, 2006	79.7 dB	117.2 dB	
August 10, 2006	81.6 dB	118.7 dB	
August 11, 2006	78.3 dB	112.5 dB	
August 12, 2006	76.8 dB	113.3 dB	

COMMUNITY NOISE MONITORING - BRIDGE

DATE OF MONITORING	AVERAGE NOISE LEVEL	MAXIMUM NOISE LEVEL	MONITORING PLAN LIMIT
August 7, 2006	67.4 dB	99.9 dB	80 dB
August 8, 2006	68.0 dB	100.6 dB	
August 9, 2006	68.7 dB	98.0 dB	
August 10, 2006	68.9 dB	100.8 dB	
August 11, 2006	68.6 dB	96.6 dB	
August 12, 2006	68.7 dB	95.2 dB	

CONCLUSIONS

Based on this data, the excavating, dirt hauling, and contaminated water cleanup conducted from August 7 through August 12, 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 and Addendum for the areas monitored.

The average noise levels documented during the week of August 7 to August 12, 2006 were below the project action limit for community noise in the areas monitored. Maximum noise levels were recorded above the project action level at both locations; however, these exceedances were for extremely short durations and occurred when BNSF trains passed through the town and during some heavy equipment operations.

Although the elevated noise limits are above the project action limit, they do not exceed the King County Noise Code or the Skykomish Municipal Noise Code, which allow for any source of construction noise that is of short duration to be increased by:

- 5 dB(A) for a total of fifteen minutes in any one-hour period; or
- 10 dB(A) for a total of five minutes in any one-hour period; or
- 15 dB(A) for a total of one and one-half minutes in any one-hour period.

All readings greater than 100 dB for the railyard and bridge monitoring stations were instantaneous readings that occurred while a train passed through town. Since train noise is exempt from the applicable noise codes, no exceedances of County or Municipal Code were recorded at either location during the monitoring period.

We appreciate this 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,



Scott Rinear
Industrial Hygienist

Reviewed by,



Elisabeth Black, CIH
Argus Pacific, Inc.

Attachments:

Air and Noise Monitoring Sample Locations Plan (08/07/06 to 08/12/06)

Laboratory Certificates of Analysis

DataChem Laboratories, Batch #06I-4216-01
DataChem Laboratories, Batch #06I-4216-02
DataChem Laboratories, Batch #06I-4216-03
DataChem Laboratories, Batch #06I-4216-04
DataChem Laboratories, Batch #06I-4343-01
DataChem Laboratories, Batch #06I-4343-02

DataRam4 data for instrument D-417 (08/07/06)
DataRam4 data for instrument D-417 (08/08/06)
DataRam4 data for instrument D-417 (08/09/06)
DataRam4 data for instrument D-417 (08/10/06)
DataRam4 data for instrument D-417 (08/11/06)
DataRam4 data for instrument D-417 (08/12/06)
Skykomish Air & Noise Wk 11 report v1.doc
3936-06 T2 Argus Pacific, Inc.

DataRam4 data for instrument D-416 (08/07/06)
DataRam4 data for instrument D-416 (08/08/06)
DataRam4 data for instrument D-416 (08/09/06)
DataRam4 data for instrument D-416 (08/10/06)
DataRam4 data for instrument D-416 (08/11/06)
DataRam4 data for instrument D-416 (08/12/06)

Larson Davis 820 Noise Data – Bridge (08/07/06 – 08/12/06)
Larson Davis 820 Noise Data – Railyard (08/07/06 – 08/12/06)