

November 20, 2006

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

RE: WEEKLY AIR AND NOISE MONITORING REPORT
OCTOBER 30 – NOVEMBER 2, 2006
Levee Zone Interim Action
Skykomish, Washington

Ms. Voges,

This document represents the twenty-third 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 October 30 through November 2, 2006. The purpose of this report is to summarize and interpret air and noise sampling data collected in the town of Skykomish during the levee zone interim action conducted by The RETEC Group (RETEC). Argus Pacific conducted monitoring in accordance with the revised BNSF Skykomish Air and Noise Monitoring Plan issued by Argus Pacific on September 19, 2006.

In addition, in past weeks air and noise monitoring was conducted each day that there was construction activity. However, during this week, neither Argus Pacific or RETEC had any technicians on site on Friday, November 3, 2006. This is the reason why this report only covers Monday (October 30, 2006) through Thursday (November 2, 2006).

Also, this report represents the last week of air monitoring activities for the levee zone interim action in Skykomish, Washington. After Thursday, November 2, 2006, collection of chemical and respirable dust samples was deemed no longer necessary due to the completion of tasks that disturb contaminated soils and the continuous use of heavy equipment in public areas (near school, on bridge). The decision to cease air monitoring for chemicals and respirable dust was approved by RETEC and the Washington State Department of Ecology. Noise measurements will continue to be collected on days with construction activity, barring inclement weather.

WORK ACTIVITIES

Argus Pacific collected chemical samples and noise measurements on October 30 and November 2, 2006. Argus Pacific collected respirable dust samples on October 30, 2006, but not on November 2, 2006 due to heavy and persistent rain. RETEC technicians collected respirable dust samples and noise measurements on October 31 and November 1 of that week. However, on October 31, 2006, respirable dust samples were only collected at the east end of the railyard.

During sampling, workers continued foundation work throughout the levee zone. The water storage tanks were moved from the levee zone to the railyard. Workers installed the water treatment plant at the railyard. Workers began loading equipment onto trucks in the levee zone for demobilization. The loading of impacted materials from the railyard stockpiles into railcars continued.

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 October 30, 2006, Argus Pacific collected air samples at the east end of the railyard (on ladder between eastern-most railcar and east end of railyard stockpiles) in a downwind direction relative to construction activities. Air samples were also collected at the northeast corner of the schoolyard, not directly downwind of construction activities, but immediately adjacent to the levee zone. Samples taken on October 30, 2006 at these two locations were analyzed for lead, arsenic, petroleum hydrocarbons (Naphthas), diesel particulate matter, and polynuclear aromatic hydrocarbons (PAHs). Air samples were also taken inside the school building (third floor, northeast room). Samples taken on October 30, 2006 inside the school building were analyzed for petroleum hydrocarbons (Naphthas) and polynuclear aromatic hydrocarbons (PAHs).

On November 2, 2006, Argus Pacific collected air samples at the east end of the railyard, the northeast corner of the schoolyard, and inside the school building. Samples collected on November 2, 2006 from the railyard and schoolyard were analyzed for lead, arsenic, and petroleum hydrocarbons (Naphthas). The samples collected on November 2, 2006 inside the school were analyzed for petroleum hydrocarbons (Naphthas) and polynuclear aromatic hydrocarbons (PAHs).

Argus Pacific also conducted community noise monitoring at the northwest corner of the railyard (just north of railroad tracks on the corner of Railroad Avenue and North 5th Street), and at the northeast corner of the schoolyard, immediately adjacent to the levee zone. Argus Pacific conducted respirable dust monitoring on October 30, 2006. Argus Pacific collected no respirable dust samples on November 2, 2006 due to heavy and persistent rain. On days during the week when Argus Pacific was not on site (October 31 and November 1, 2006), RETEC technicians conducted community noise monitoring at the northwest corner of the railyard and the northeast corner of the schoolyard. RETEC technicians conducted respirable dust monitoring on both days. However, on October 31, 2006, RETEC technicians only collected respirable dust samples at the east end of the railyard, and no dust monitors were set up at the northeast corner of the schoolyard or southwest of the bridge on the west side of North 5th Street.

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

SAMPLING RESULTS

None of the target compounds were identified at or above the laboratory limits of detection at any of the three 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.

OCTOBER 30, 2006

RAILYARD (EAST END) SAMPLES – LOADING OF IMPACTED MATERIALS INTO RAILCARS, WATER TREATMENT PLANT INSTALLATION

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
1030-ERY-LA	Lead	481 minutes	2.0 µg/m ³	<2.0 µg/m ³	50 µg/m ³
	Arsenic	481 minutes	3.0 µg/m ³	<3.0 µg/m ³	10 µg/m ³
1030-FB-LA	Lead	Field Blank	2.0 µg/sample	ND	NA
	Arsenic	Field Blank	3.0 µg/sample	ND	NA
1030-ERY-N	Naphthas	481 minutes	0.52 mg/m ³	<0.52 mg/m ³	100 mg/m ³
1030-FB-N	Naphthas	Field Blank	0.01 mg/sample	ND	NA
1030-ERY-DPM	Diesel Particulate (as Elemental Carbon)	481 minutes	1.8 µg/m ³	<1.8 µg/m ³	20 µg/m ³
1030-FB-DPM	Diesel Particulate (as Elemental Carbon)	Field Blank	1.7 µg/sample	ND	NA
1030-ERY-PAH	PAHs (as benzene solubles)	481 minutes	0.04 mg/m ³	<0.04 mg/m ³	0.2 mg/m ³
1030-FB-PAH	PAHs (as benzene solubles)	Field Blank	0.04 mg/m ³	ND	NA

ND = Non-Detect

SCHOOLYARD (NE CORNER) SAMPLES – FOUNDATION WORK, WATER STORAGE TANK REMOVAL, LOADING OF CONSTRUCTION EQUIPMENT ONTO TRUCKS, TRUCK TRAFFIC

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
1030-NSY-LA	Lead	482 minutes	2.1 µg/m ³	<2.1 µg/m ³	50 µg/m ³
	Arsenic	482 minutes	3.1 µg/m ³	<3.1 µg/m ³	10 µg/m ³
1030-NSY-N	Naphthas	482 minutes	0.52 mg/m ³	<0.52 mg/m ³	100 mg/m ³
1030-NSY-DPM	Diesel Particulate (as Elemental Carbon)	482 minutes	1.8 µg/m ³	<1.8 µg/m ³	20 µg/m ³
1030-NSY-PAH	PAHs (as benzene solubles)	482 minutes	0.04 mg/m ³	<0.04 mg/m ³	0.2 mg/m ³

INSIDE SCHOOL BUILDING (THIRD FLOOR, NE ROOM) SAMPLES – FOUNDATION WORK, WATER STORAGE TANK REMOVAL, LOADING OF CONSTRUCTION EQUIPMENT ONTO TRUCKS, TRUCK TRAFFIC

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
1030-ISB-N	Naphthas	496 minutes	0.50 mg/m ³	<0.50 mg/m ³	100 mg/m ³
1030-ISB-PAH	PAHs (as benzene solubles)	496 minutes	0.04 mg/m ³	<0.04 mg/m ³	0.2 mg/m ³

NOVEMBER 2, 2006

RAILYARD (EAST END) SAMPLES – LOADING OF IMPACTED MATERIALS INTO RAILCARS, WATER TREATMENT PLANT INSTALLATION

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
1102-ERY-LA	Lead	487 minutes	2.1 µg/m ³	<2.1 µg/m ³	50 µg/m ³
	Arsenic	487 minutes	3.1 µg/m ³	<3.1 µg/m ³	10 µg/m ³
1102-ERY-N	Naphthas	487 minutes	0.51 mg/m ³	<0.51 mg/m ³	100 mg/m ³

SCHOOLYARD (NE CORNER) SAMPLES – FOUNDATION WORK, WATER STORAGE TANK REMOVAL, LOADING OF CONSTRUCTION EQUIPMENT ONTO TRUCKS, TRUCK TRAFFIC

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
1102-NSY-LA	Lead	489 minutes	2.0 µg/m ³	<2.0 µg/m ³	50 µg/m ³
	Arsenic	489 minutes	3.1 µg/m ³	<3.1 µg/m ³	10 µg/m ³
1102-NSY-N	Naphthas	489 minutes	0.51 mg/m ³	<0.51 mg/m ³	100 mg/m ³

INSIDE SCHOOL BUILDING (THIRD FLOOR, NE ROOM) SAMPLES – FOUNDATION WORK, WATER STORAGE TANK REMOVAL, LOADING OF CONSTRUCTION EQUIPMENT ONTO TRUCKS, TRUCK TRAFFIC

SAMPLE ID	COMPOUND	SAMPLE TIME	LIMIT OF DETECTION	RESULT	MONITORING PLAN LIMIT
1102-ISB-N	Naphthas	497 minutes	0.50 mg/m ³	<0.50 mg/m ³	100 mg/m ³
1102-ISB-PAH	PAHs (as benzene solubles)	497 minutes	0.04 mg/m ³	<0.04 mg/m ³	0.2 mg/m ³

OCTOBER 30, 31 AND NOVEMBER 1, 2006

RESPIRABLE DUST MONITORING RESULTS – RAILYARD (EAST END)

SAMPLE NUMBERS	DATE SAMPLE COLLECTED	PEAK CONCENTRATION (ONE MINUTE)	AVERAGE CONCENTRATION	MONITORING PLAN LIMIT
DataRam4, Serial #D417 Tag 033	October 30, 2006	41 µg/m ³	3.6 µg/m ³	5,000 µg/m ³
DataRam4, Serial #D417 Tag 034	October 31, 2006	75 µg/m ³	5.7 µg/m ³	
DataRam4, Serial #D417 Tag 035	November 1, 2006	26 µg/m ³	9.0 µg/m ³	

RESPIRABLE DUST MONITORING RESULTS – NE SCHOOLYARD

SAMPLE NUMBERS	DATE SAMPLE COLLECTED	PEAK CONCENTRATION (ONE MINUTE)	AVERAGE CONCENTRATION	MONITORING PLAN LIMIT
DataRam4, Serial #D416 Tag 033	October 30, 2006	144 µg/m ³	2.4 µg/m ³	5,000 µg/m ³
DataRam4, Serial #D416 Tag 034	November 1, 2006	29 µg/m ³	2.2 µg/m ³	

RESPIRABLE DUST MONITORING RESULTS – BRIDGE

SAMPLE NUMBERS	DATE SAMPLE COLLECTED	PEAK CONCENTRATION (ONE MINUTE)	AVERAGE CONCENTRATION	MONITORING PLAN LIMIT
DataRam4, Serial #D495 Tag 21	October 30, 2006	68 µg/m ³	5.3 µg/m ³	5,000 µg/m ³
DataRam4, Serial #D495 Tag 22	November 1, 2006	80 µg/m ³	16.7 µg/m ³	

COMMUNITY NOISE MONITORING – RAILYARD

DATE OF MONITORING	AVERAGE NOISE LEVEL	MAXIMUM NOISE LEVEL	MONITORING PLAN LIMIT
October 30, 2006	79.6 dB	114.7 dB	85 dB
October 31, 2006	78.4 dB	114.3 dB	
November 1, 2006	78.6 dB	115.1 dB	
November 2, 2006	78.0 dB	113.3 dB	

COMMUNITY NOISE MONITORING – NE SCHOOLYARD

DATE OF MONITORING	AVERAGE NOISE LEVEL	MAXIMUM NOISE LEVEL	MONITORING PLAN LIMIT
October 30, 2006	65.8 dB	96.7 dB	80 dB
October 31, 2006	64.6 dB	99.3 dB	
November 1, 2006	60.0 dB	94.1 dB	
November 2, 2006	67.1 dB	95.1 dB	

CONCLUSIONS

Based on this data, the foundation work, water storage tank removal from the levee zone and water treatment plant installation at the railyard, truck traffic, and loading of impacted materials into railcars from railyard stockpiles conducted from October 30 through November 2, 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.

The average noise levels documented from October 30 to November 2, 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 schoolyard 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 (10/30/06 to 11/02/06)

Laboratory Certificates of Analysis

DataChem Laboratories, Batch #06I-5871-01
DataChem Laboratories, Batch #06I-5871-02
DataChem Laboratories, Batch #06I-5871-03
DataChem Laboratories, Batch #06I-5871-04
DataChem Laboratories, Batch #06I-6012-01
DataChem Laboratories, Batch #06I-6012-02
DataChem Laboratories, Batch #06I-6012-03

DataRam4 data for instrument D-417 (10/30/06, 10/31/06, & 11/1/06)

DataRam4 data for instrument D-416 (10/30/06 & 11/1/06)

DataRam4 data for instrument D-495 (10/30/06 & 11/1/06)

Larson Davis 820 Noise Data – East Railyard (10/30/06 – 11/2/06)

Larson Davis 820 Noise Data – Northeast Schoolyard (10/30/06 – 11/2/06)