

March 2, 2015

Attention: Sandra Treccani
Washington State Department of Ecology
Eastern Regional Office
4601 North Monroe, Suite 202
Spokane, Washington 99205

RE: 2014 Annual Report - South Wilbur Site

INTRODUCTION

This annual progress report has been prepared by Lincoln County Public Works to document progress of maintenance, operations, and inspections at the South Wilbur Petroleum Contamination Site (site) located at Wilbur, Washington. The objective of this progress report is to communicate to Ecology a summary of the conditions, progress, and integrity of the various site components and implementation of the monitoring requirements contained in the Remedial Action Plan (RAP) for the site. This report provides a summary of all key activities implemented in the overall monitoring requirements and annual reporting requirements to summarize the condition of specific components of the Phytoremediation Barrier, Semi Impervious Gravel Surfacing, and Stormwater Controls implemented as part of the RAP for this site. This is the 9th annual progress report submitted to Ecology as outlined under the RAP. Future progress reports will be submitted annually pursuant to the RAP requirements.

SUMMARY OF ALL KEY ACTIVITIES

The following activities occurred during 2014.

1. Lincoln County renewed contract with BioRemediation Specialist LLC for continued Chemical and Biological Remediation at the Site. The change in contract from Hart Crowser, Inc. to Bioremediation Specialists LLC was prudent to necessitate mid-project seamless transition to insure greatest project outcomes and success.
2. Budinger and Associates continued with monitoring work in 2014.
3. Lateral and vertical infiltration and injection galleries were maintained and in use as per project plans.
4. *In Situ* chemical and biological remediation work conducted consisted of the combination of one-time injection of chemical and biological oxidants with subsequent slug injections.
5. Monitoring was completed as per project schedule.
6. Adjustments to injections and monitoring were made as necessary due to dry weather conditions and lack of well water.

SUMMARY OF SITE CONDITIONS

The following provides a summary of inspections and monitoring performed on the various site components as outlined in the site operations and maintenance plan included in the RAP.

1. Institutional Controls:

- North and West Boundary fence remains in place and functional.
- Site signage remains in place and functional.
- Restrictive Covenants are recorded and in place.
- No problem areas identified.
- Monitoring will continue in 2015 in coordination with continuing remediation work.
- Recommend continuation of current practices and planned remediation work.

2. Monitoring Wells:

- Monitoring Wells were inspected during each Monitoring Event.
- Monitoring Wells 4 and 6 were redeveloped due to possible screen fouling limiting aquifer connectivity.
- Routine maintenance was performed on certain wells to insure well head components were accessible and functioning properly.
- Monitoring Wells remain accessible and functional.
- Inspections will continue in 2015.
- Recommend continuation of current practices.

3. Phytoremediation Barrier:

- Plant growth within the Phytoremediation Barrier was monitored in 2014.
- Grasses planted continue to fill in.
- Russian thistle, Mustard, and other various weeds are also present.
- Grass and weed control is completed by mechanical weed whacker.
- Continue monitoring the vegetation in 2015.

4. Semi-impervious Gravel Surfacing:

- Grade and drainage remains in-place, functional, and effective against infiltration.
- There are normal signs of slight raveling and rutting in traffic areas and repairs are ongoing to address.
- Traffic Areas will be bladed or rock raked to remove rutting when weather permits.
- No problem areas identified.
- Monitoring will continue in 2015.
- Recommend continuation of current practices.

5. Stormwater Control:

- Grade and elevations established under cleanup activities remains effective.
- Sheet flow dispersion remains functional and effective toward street drains, phytoremediation barrier, and natural dispersion to ground outside areas excavated during clean up activities.
- Lincoln County will be completing some grading to improve slight ponding problems identified.
- Monitoring will continue in 2015.
- Recommend continuation of current practices.

6. Good Housekeeping Practices:

- Equipment fueling operations are completed off site.
- Equipment maintenance and repairs are completed inside shop area.
- Oils and grease are stored inside buildings.
- Vehicle washing is completed over installed vehicle wash facility.
- Spill cleanup materials remain available on site.
- No problem areas identified.
- Monitoring will continue in 2015.
- Recommend continuation of current practices.

DELIVERABLES SUBMITTED

Deliverables to Ecology: A Summary Report of the 2014 Chemical & Biological Remediation Services and Work submitted by BioRemediation Specialists, LLC and Budinger Associates; This 2014 Operations and Maintenance Report.

SCHEDULE DEVIATIONS

Injection and monitoring schedules were adjusted as necessary due to dry weather conditions resulting in limited or no monitoring well groundwater. Adjustments to scheduling are explained the 2014 Report.

DATA GENERATED

A groundwater monitoring report that documents results of the quarterly Monitoring Events and 2014 Annual Monitoring Summary completed by Budinger & Associates and Bioremediation Specialists is finalized and submitted with this Report.

PLANNED ACTIVITIES AND DELIVERABLES

All current practices, as completed, appear adequate and consistent with requirements outlined in the revised RAP for the Wilbur Site. All current activities as summarized in this report will be implemented in 2015, with major planned activities summarized as follows:

1. Conduct quarterly groundwater monitoring events March, June, September and December or as adjusted to coincide with planned Slug Injections as part of the Remediation Work.
2. Conduct routine operations and maintenance activities as may be necessary.
3. Continue monitoring vegetation comprising the Phytoremediation Barrier.
4. Prepare Quarterly Data & Annual Monitoring Event and Remediation Progress Report and submit to Ecology for review.
5. Prepare Annual Site Reports and submit to Ecology for review.
6. Schedule meeting with DOE to determine status of possible continued grant funding for this site in light of project results.



Please don't hesitate to contact me at (509) 725-7041 if you have any questions.

Respectfully submitted,

A handwritten signature in blue ink that reads "Rick Becker".

Rick Becker
Public Works Director

Enclosures: 2014 Chemical and Biological Remediation Services and Monitoring Report prepared jointly by BioRemediation Specialists and Budinger and Associates