

FEB 2 2 2017

DEPT OF ECOLOGY
TCP - NWRO

1941 LAKE WHATCOM BOULEVARD ▼ B-113 BELLINGHAM, WASHINGTON 98229-2777 (360) 734-4955 TOLL-FREE (800) 457-1902

WEBSITE: www.nwhydrogeo.com email: nwhydrogeo@datalilnkwest.com

SITE REMEDIATION REPORT

CONWAY FEED SITE

18700 MAIN STREET · P O BOX 576 CONWAY Feed

UST # 10865 • LUST # 2746 VCP No. NW2185 FSID: 5/35 SEED 2534 LUST ID: 8079

Prepared For

SCOTT McKNIGHT, GENERAL MANAGER
CONWAY FEED
P O BOX 576 • CONWAY, WA 98238



Table of Contents

INTRODUCTION	
Background	
Site Location and Description	•
GEOLOGY AND HYDROGEOLOGY AND SOILS	•
Discussion of Aquifers Found in the Local Area	
PREVIOUS WORK AT THE SITE	
GROUND WATER TESTING RESULTS BY NWHGC IN SEPTEMBER 2008	• ;
Background	
DISCUSSION OF RESULTS	
NWTPH-HCID	
RESPONSE FROM THE WDOE	
CURRENT ACTIVITIES AT THE CONWAY FEED SITE (2010-2011)	
Site Activities: Removal of Contaminated Soils Under the Canopy at the Conway Feed site	• •
Excavation of the Site	
SOIL SAMPLING FROM TEST PITS	. (
Ground Motor Compling and Tooling	٠,٠
Ground Water Sampling and Testing	14
Results of Testing	12
FINAL SOILS REMOVAL FROM THE PIT	
Soil sampling by NWHGC	13
RESULTS OF GROUND WATER TESTING FROM THE PIT AREA	
Ground Water Testing on 12-30-2010	15
Final Ground Water Sampling and Testing on July 22, 2011	16
Discussion of Ground Water Testing	1/
REMEDIATION OF CONTAMINATED SOILS	18
Background	18
Resumption of Work Activities Beginning on June 13, 2011	18
Remediation of the Soils and Final Testing	18
Soil Sample Collection and Testing From the Remediation Area	
Discussion of Results	
SUMMARY AND CONCLUSIONS	
INDEMNIFICATION AND LIMITATIONS	
REFERENCES	25

FOLLOW UP INVESTIGATION OF THE SOILS AND GROUND WATER AT THE CONWAY FEED SITE 18700 MAIN STREET • CONWAY, WA 98238

Facility/Site No.: 3194825
VCP Project No. NW2185

INTRODUCTION

Background

This combined ESA II and III report is being prepared at the request of Mr. Scott McKnight, General Manger of the Conway Feed site in Conway, Washington. **Northwest HydroGeo Consultants (NWHGC)** was contracted to conduct the investigation (ESA II) and cleanup (ESA III) at the Conway Feed Site in Conway, WA beginning 2008. What is currently known at the subject site is the following, based on the sources referenced:

Site Location and Description

The subject site is located in the southwest corner of Skagit County on the eastern edge of the Skagit River delta. The delta lies between the South Fork of the Skagit River on the eastern side of the delta, while the western edge of the delta is formed by the North Fork of the Skagit River. The South Fork of the Skagit River lies approximately 2000 feet west of the subject site (see Figure No. 1). The elevation of the subject site is only about ten feet above sealevel and the ground water under the site is quite shallow, at about four feet deep. The subject site is approximately three miles north of the Snohomish County border. The area around the community of Conway is decidedly rural in nature. The subject site is located in the Northeast Quarter of the Northeast Quarter of Section 19 in Township 33 North, Range 04 East, W.M. The surface of the site is generally level, with no apparent slope. The monitoring well which is located under a concrete slab directly west of the former USTs has a GPS reading of:

48° 20.434' North Latitude 122° 20.491' West Longitude

GEOLOGY AND HYDROGEOLOGY AND SOILS

Geologic:

Western Skagit County lies within the Puget Sound Lowland, a topographic and structural depression between the Cascade range of mountains to the east and the Olympic Mountains on the west. Pleistocene-era glacial and non-glacial deposits cover most of the lowlands. The subject area is covered with floodplain sediments from the meandering South Fork of the Skagit River, located only 2,000 feet west of the subject site.

Hydrogeologic:

The underlying aquifer in this area of Conway is the water table aquifer and is quite shallow, approximately four feet deep. We believe this aquifer is in direct hydraulic continuity with the North Fork of the Skagit River. Recharge to this upper aquifer is accomplished mainly by direct infiltration. Precipitation moves downward from the surface under the influence of gravity, where it intercepts the water table aquifer. From there the ground water moves within the formation under the influence of gravity toward the Skagit River in primarily a westerly direction, where it probably discharges.

Hydrologic:

The subject site and the area for a mile surrounding the site lies within the 100-year flood zone of the Skagit River. There are also considerable wetland areas west of the subject site. The approximate elevation of the subject site is only about 10 feet above sea level.

Local Soils:

The local soils are described in the Soil Survey of Skagit County Area, Washington, presented in the U.S. Department of Agriculture Soil Conservation Service publication dated 1989. The subject site soils are classified as **Sumas silt loam** and described as:

This very deep, poorly drained soil is on flood plains and deltas. Drainage has been altered by tilling. This soils is partially protected from flooding. It

(10 Sms

formed in alluvium. Slope is 0 to 2 percent. Permeability of this soil is moderate in the upper part and rapid in the lower part. Available water capacity is moderately high.

Topographic:

The subject site and surrounding area is essentially flat lying, having been modified over the last 10,000 years by the meandering Skagit River, which has moved back and forth over the local area many times. The Skagit River during periods of flooding does pose a potential risk to the site, especially during the spring runoff season.

Discussion of Aquifers Found in the Local Area

It is clear from examination of the well logs in the local area of the subject site that there are two types and two separate and distinct aquifers. There is the **upper aquifer**, which is the shallow water table aquifer. This aquifer is unconfined and at atmospheric pressure. This is the same aquifer seen under the subject site and in which the monitoring well has been completed. The ground water in this aquifer is slowly moving in a southwesterly direction. Recharge to this aquifer is local.

Known ?

The second type of aquifer in the local area is a **deep confined aquifer**. The three wells of record in this area which were completed in this aquifer average 125 feet in depth. Static water level in these three wells averages about 69 feet, meaning the aquifer is under high formation pressure and is confined. Recharge to this aquifer is to the east and at higher elevations. Copies of all well logs are found in the Appendix of this report.

PREVIOUS WORK AT THE SITE

A report was prepared for Conway Feed by Materials Testing and Consulting, Inc. (MTC), on the previous decommissioning by removal of the two Underground Storage Tanks (USTs) at the subject site in late December of 1991 and early January of 1992. The two USTs consisted of a 2,000 gallon diesel and a 1,000 gallon gasoline UST. It was noted in the MTC report that corrosion and holes were observed in the bottom of both the diesel and gasoline USTs at the time of removal. Contamination was verified by the testing of soils from the pit excavation. Remediation of the site consisted of removing approximately 15 cubic yards of contaminated soils and backfilling with clean pit-run gravel.

The contaminated soils from the pit location were stockpiled and remediated onsite. On May 26, 1994 and June 29, 1994, three soil samples were collected from these stockpiled soils and tested. The results showed that there was no contamination reported in the stockpiled soils above the cleanup standards.

A 2-inch diameter monitoring well was installed directly west of the location of the former USTs in the backfill gravel to a depth of 15 feet, and the ground water tested on February 25, 1992 with the results that no contamination was in the ground water. A report on these activities was submitted by **MTC** on behalf of Conway Feed dated February, 1992.

In September, 2008 **NWHGC** was contacted by Mr. Scott McKnight, General Manager of Conway Feed, to obtain closure on the previous work done at the site and obtain a letter of **No Further Action** from the Washington Department of Ecology (WDOE). **NWHGC** studied the previous work done at the site including the report submitted by **MTC**. On September 26, 2008 **NWHGC** collected a ground water sample from the 15-foot deep monitoring well constructed at the site.

GROUND WATER TESTING RESULTS BY NWHGC IN SEPTEMBER 2008

Background

A shallow 2-inch diameter 15-foot-deep monitoring well was constructed in 1992 west (downgradient) of the two decommissioned fuel tanks at the subject site. The monitoring well was constructed under the roof overhang.

Table No. 1 Findings and Results of Laboratory Water Testing for NWTPH-HCID September 2008

Field Sample	Laboratory Test Results of Water Samples NWTPH-HCID				
	Gx Range	Diesel	Heavy Oil		
Ground Water Cleanup Standards	0.8 mg/L	0.50 mg/L	0.50 mg/ L		
Water Sample Results	ND	ND	ND		

ND = Not Detected

Table No. 2 Findings and Results of Laboratory Water Testing for BTEX and Lead September 2008

	Laboratory Test Results of Water Samples BTEX and Lead							
Field Sample	Benzene mg/L	Toluene mg/L	Ethylbenzene mg/L	Total Xylenes mg/L	Lead mg/L			
Ground Water Cleanup Standards	0.005 mg/L	1.00 mg/L	0.50 mg/L	1.00 mg/L	0.015 mg/L			
Water Sample Results	0.0003 mg/L	ND	ND	ND	0.003 mg/L			

DISCUSSION OF RESULTS

NWTPH-HCID

This method tests the ground water for the three major contaminants in ground water, mainly gasoline, diesel and heavy hydrocarbons. Analysis was reported as **Not Detected** for all three compounds.

NWHGC prepared a report in October, 2008 detailing our investigation at the site which included review of collected existing materials outlined in previous paragraphs and collecting a fresh ground water sample for testing from the existing two-inch monitoring well installed at the site in 1992 following the removal of the two USTs.

RESPONSE FROM THE WDOE

A letter was received from the **WDOE** on March 08, 2010, prepared by Ms. Libby S. Goldstein, NWRO Toxics Cleanup Program. Ms. Goldstein reviewed the reports submitted by **NWHGC** and the previous report submitted by **MTC Inc.** In her letter she concluded:

- The site was not adequately characterized by MTC and further work was required. Specifically the extent of soil contamination from gasoline and diesel underneath the canopy, west of the of the removed USTs, was unknown.
- 2) Ground water at the site had not been adequately characterized. The construction of the well was not known, which compromises the integrity of the ground water data collected from the well.
- 3) Ms Goldstein stated that the location of the 2-inch monitoring well did not appear to be down gradient of the area where the USTs were removed. Note: This conclusion of Ms. Goldstein is incorrect. The existing 2-inch monitoring well is 15 feet in depth as sounded by NWHGC and was installed on 1992. The ground water under the site is moving in a westerly direction, meaning the monitoring well is located downgradient of the two decommissioned USTs which were removed in late December of 1991 and early January of 1992.
- 4) Ecology has determined that cleanup levels and points of compliance established for the site do not meet the substantive requirement of MTCA. The site does not meet the MTCA definition of an industrial property; therefore, soil cleanup levels suitable for unrestricted land use are appropriate. For unrestricted land use, direct contact, either Method A or B cleanup levels can be used. If ground water at the site has been impacted by releases, either MTCA Method A or B cleanup levels can be used.

CURRENT ACTIVITIES AT THE CONWAY FEED SITE (2010-2011)

Site Activities: Removal of Contaminated Soils Under the Canopy at the Conway Feed Site

Based on our discussions with Ms. Goldstein, NWRO Toxics Cleanup Program, additional site remediation activities were planned for the site. The primary objective was to explore the area directly west of the former UST location which lies under a metal canopy and below a thick concrete slab. **ULTRA TANK SERVICES, Inc.** of Bellingham, WA was contracted to do the exploration of the soils and ground water and if contamination was present, remove and remediate the soils.

This additional work at the Conway Feed site began on November 16, 2010. The area in question lies directly west of the 2-inch PVC monitoring well constructed in February, 1992 and used to collect ground water from the former UST excavation. **ULTRA TANK Inc.** began their activities using a jackhammer to break up the concrete slab that covered the entire area of interest under the canopy. **ULTRA TANK Inc.** also mobilized to the site a **Kubota®** track-mounted backhoe which was used to break up and remove the broken concrete. The concrete slab, which covers an area of approximately 80 feet by 20 feet, was broken up and loaded onto a tilt-bed truck and transported north approximately 500 feet to an area which would serve as a location for the remediation of any contaminated soils present at the site.

On November 22, 2010, with the concrete slab removed, the **ULTRA TANK SERVICES**, the backhoe began excavating soils from the area below the canopy. Contamination in the soils was encountered in depths below the surface that approximately matched the height of the water table in the area. The water table has remained fairly constant over time at the site. It was first measured in the 2-inch PVC casing (monitoring well installed in February, 1992). The height of the ground water was measured at a depth of 2.95 feet from top-of-casing (TOC) on November 18, 2010, when one would expect the water table to be high. The ground water was measured at a depth of 2.83 feet from TOC on June 13, 2011 when the water table is lower. Still there was only a difference of 0.12 feet, indicating there isn't that much fluctuation in the water table throughout the year at this site.

Excavation of the Site

Once the concrete slab had been removed a series of exploratory pits were dug in the area of the building and the former USTs. **ULTRA TANK Inc.** began digging a series of test pits in the area for the purpose of: **1)** determining the depth of the contaminated soils and **2)** the areal extent of the contamination plume under the site. The stockpile area for the contaminated soils was also located in the same area as held the broken concrete slabs, approximately 500 feet north of the excavation area. Initial excavation activities produced a strong odor of hydrocarbon in the upper soils. The upper surface immediately below the removed concrete slab consisted of approximately 8 to 12 inches of a light gray imported mixture of silty gravel with sand (**GM**), using the Unified Soils Classification System, a copy of which is in the Appendix of this report. Below the GM soils there is a change, with the soils becoming a dark gray to very dark gray mixture of inorganic silts and very fine sands with clayey silts classified as **CL**. The soils were mostly dry but below about four feet the soils became more moist and not so stiff. In localized zones we encountered a highly odoriferous oily sludgy material which gradually disappears below approximately five feet in depth.

Using a portable Photoionization Meter (PID) we detected only low amounts of petroleum hydrocarbons, with the higher concentrations isolated in pockets and these generally near the eastern area from under the removed concrete slab. A PID meter mainly registers volatile organic compounds such as in gasoline. Since any gasoline present at this location has aged and has lost much of its volatile organic compounds, and diesel has only a trace of volatile organic compounds, it was not surprising that the PID meter registered only low concentrations. We relied mainly on visual and olfactory indications (smell) to indicate hydrocarbon contamination, and on the test results from soil samples collected and analyzed by EDGE Analytical Laboratory in Burlington, WA.

A number of soil samples were collected from the test pits at various depths under what had been the concrete cover which was broken up and removed. All soil samples were submitted to **EDGE Analytical Laboratories** for analysis for gasoline and lead. The following description outlines the collection of soil and or ground water samples by date and a discussion of samples collected.

Test pits were dug over the entire area under the former concrete slab and with maximum depths of around eight feet. Ground water was not a problem in these **CL** soils as they were native soils and highly impermeable to the movement of ground water.

SOIL SAMPLING FROM TEST PITS

To establish the amount of contamination in the area under the metal canopy in the area directly west of the former two USTs and the existing monitoring well, a series of test pits was excavated over the area over a several day period and soil samples collected for testing on November 18, 22 and 28 of 2010. The soil samples were tested for Gasoline and BTEX (NWTPH-Gx/8260B), Diesel (NWTPH-Dx) and Lead (200.8/3051).

Samples Collected on November 18, 2010

- SAMPLE A: Collected a floor sample at a depth of 54". The soil had a strong odor of hydrocarbons and was very dark gray fine sand with clayey silt (CL). The soil above it was a light gray color (CL), so this is a definite color change. The sample was collected in the southwest area of the pit (see diagram for approximate location).
- SAMPLE B: Collected a floor sample at a depth of 72"; this sample, like the first, was very dark gray fine sand with clayey silt (CL). This sample was taken further west approximately 2.5 feet from the wall formed by the building. There was an odor of petroleum hydrocarbons but less strong than from Sample A.

Sample Collected on November 22, 2010

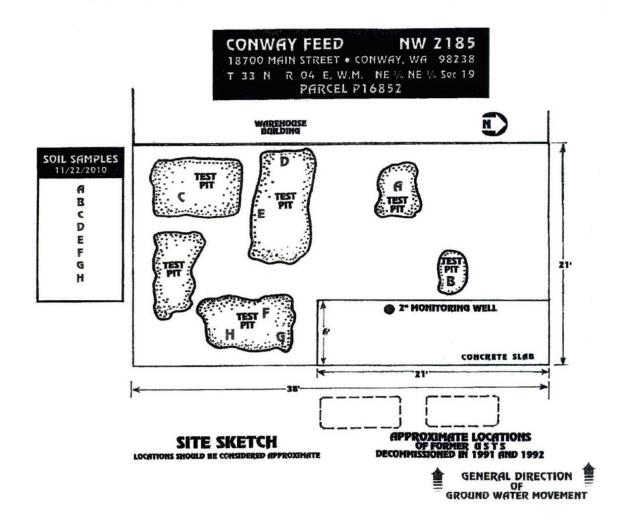
SAMPLE C: Collected a floor sample at a depth of 78". This sample had no odor and was dark gray and very clayey with silt and minor fine sand present (CL). After collecting this sample we dug deeper to verify that we were indeed out of the contaminated soils. This sample was collected in the southwest corner of the uncovered area. Laboratory results showed this sample was indeed free of hydrocarbons.

Samples Collected on November 28, 2010

- **SAMPLE D:** Collected a floor sample at a depth of 84.6". This sample had **no** odor and consisted of a dark gray, silty clay material with minor fine sand present (**CL**). This sample was collected next to the wall of the building.
- **SAMPLE E:** Collected on the wall of the pit dug for Sample D, at a depth of 84". This sample appeared about the same as Sample D taken from the floor and had

no odor and consisted of a dark gray, silty clay material with minor fine sand present (**CL**). This sample was also collected next to the wall of the building from the same pit dug for Sample D.

- **SAMPLE F:** Collected on the floor of a second pit located approximately three feet east of the previous pit where Samples D and E were collected. The sample was collected at a depth of 84". Sample F had **no** odor and consisted of a dark gray, silty clay material with minor fine sand as in the previous sample (**CL**).
- **SAMPLE G:** Collected on the wall of a pit located in the northeast corner of the pit at approximately 84". This sample had **no** odor and consisted of a dark gray, silty clay material with minor fine sand as in the previous samples (**CL**).
- **SAMPLE H:** Collected on the floor of the same pit where Sample G was taken at a depth of approximately 87.5". This sample had **no** odor and consisted of a dark gray, silty clay material with minor fine sand as in the previous samples (**CL**).



All five of the above soil samples were delivered to EDGE Analytical Laboratory in Burlington, WA for analysis for Gasoline and BTEX (NWTPH-Gx/8260B), Diesel (NWTPH-Dx) and Lead (200.8/3051). All five sample results will be discussed in the following paragraphs.

Site work was halted due to winter conditions and the onset of the rainy season. Since the pits were excavated under the protective canopy the excavated pits were left open. The stockpiled soils that were moved to the remediation area located 150 feet north of the excavation area were covered during winter to prevent leaching and runoff.

Table No. 3 TEST RESULTS OF SOILS ANALYSIS

November 2010

SAMPLE No.	Benzene Method 8260B	Toluene Method 8260B	Ethylbenzene Method 8260B	Xylenes Method 8260B	Lead: Method 6010B/3051	Gasoline (C _s -C ₁₂) TPH	Diesel Fuel Range: Method NWTPH-Dx/3550B	Heavier Oils: Method NWTPH-Dx/3550B
ACTION LEVEL	0.03 mg/Kg	7.0 mg/Kg	6.0 mg/Kg	9.0 mg/Kg	250 mg/Kg	100 mg/Kg	2,000 mg/Kg	2,000 mg/Kg
Α	1	0.3	21.9	44.5	6.32	2,650	ND	ND
В	ND	ND	ND	1.1	19.0	90.5	ND	ND
С	ND	ND	ND	ND	5.94	ND	ND	ND
D	ND	ND	ND	ND	3.77	ND	ND	ND
E	ND	ND	ND	ND	3.14	ND	ND	ND
F	ND	ND	ND	ND	4.96	ND	ND	ND
G	ND	ND	ND	ND	5.32	ND	ND	ND
Н	ND	ND	ND	ND	5.83	ND	ND	ND

ND = Not Detected

C:\Users\NW HydroGeo\Doug (ACTIVE FILES)\Remediation\Conway Feed\Conway Feed Report.wpds

Ground Water Sampling and Testing

A ground water sample was collected from the test pit excavation on December 30, 2010. The individual test pits at this time were full of water and overtopped the individual cells so the one sample represented all of the pits. The ground water was partially clear but had a foul odor due to a large dead rat in the pit. A water sample was collected using a Teflon® bailer and the contents discharged into two 50 mL vials suppled by **Edge Analytical Laboratory** of Burlington, WA, where they were delivered on the same day for analysis of BTEX and Lead.

Table No. 4 Findings and Results of Laboratory Water Testing for BTEX and Lead. Water Sample Collected on 12-30-2010

	Laboratory Test Results of Water Samples BTEX and Lead							
Field Sample	Benzene mg/L	Toluene mg/L	Ethylbenzene mg/L	Total Xylenes mg/L	Gasoline (C ₈ -C ₁₂)	Lead mg/L		
Ground Water Cleanup Standards	0.005 mg/L	1.00 mg/L	0.50 mg/L	1.00 mg/L \	1 mg/L	0.015 mg/L		
Water Sample Results	ND	ND	ND	ND	ND	0.003 mg/L		

Results of Testing

Results of the ground water testing from the excavation were received from **EDGE Analytical Laboratory** on January 07, 2011 with the results that in the ground water sample collected, **BTEX** and **Gasoline** were reported **Not Detected** and only low levels of dissolved lead were present. This is consistent with the results of soils testing where contamination was not present.

COMMENCEMENT OF FIELD ACTIVITIES IN 2011

The remediation of the subject site began again with the return of warmer, drier weather. During the winter and spring months the pits filled with ground water and were not disturbed. A visit to the site on December 30, 2010 showed there was no sheen on the water surface, confirming earlier observations at the site. A water sample was collected from the pit using a new Teflon® bailer. The results are shown in Table 4 above.

FINAL SOILS REMOVAL FROM THE PIT

Background

Final removal of contaminated soils from the pit began on June 13, 2011. **ULTRA TANK**Inc. again mobilized to the site a **Kubota®** track-mounted backhoe for excavating the contaminated soils from the pit and loading the materials onto a truck with a tilt-bed. These soils were transported approximately 150 feet north to the remediation area. On Monday, June 20, 2011 **NWHGC** went to the site to collect the final three soil samples from the excavation pit. Using the backhoe the contaminated soils were excavated up to the edge of the concrete slab which was poured after the former USTs were decommissioned by removal. The soils from the edge of the concrete to near the wall of the building were removed. No contamination was detected in the test pits dug next to the wall during the 2010 work at the site. The eastern edge of the excavation intercepted the backfill gravel used after the USTs were removed.

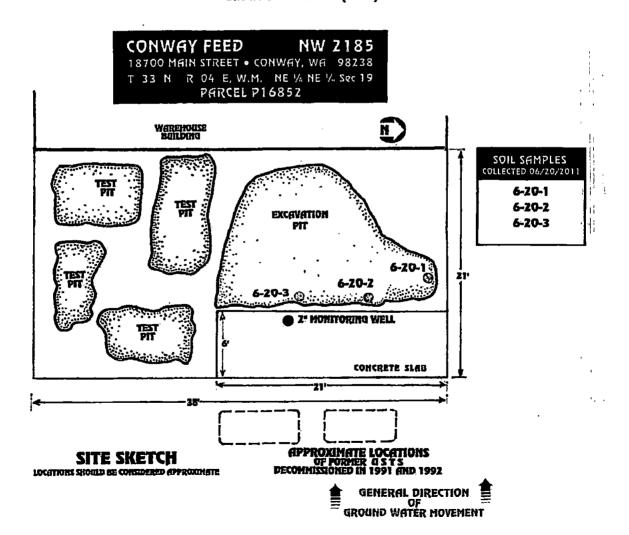
Soil Sampling by NWHGC

Three sets of soil samples were collected from the excavated pit. Sample No. 6-20-1 was collected from the north facing wall at a depth of 6 feet. Sample No. 6-20-2 was collected from the east facing wall of the pit directly opposite of where the former USTs were located. This wall contained pit run gravel used to backfill the pit excavation after the USTs were removed. Sample No. 6-20-3 was collected just north of the 2-inch monitoring well which was installed after the two USTs had been removed in 1992. A more complete description of the samples is as follows:

SAMPLE 6-20-1 1:50 PM North wall of excavation pit, approximately 8.0 feet as measured from the warehouse wall.

Sample A

Very clavey silt, small amount of fine sand but mostly SOILS: silty clay (CL). Depth of sample collection: 6 feet. East facing wall of excavation pit, approximately 9.0 2:00 PM **SAMPLE 6-20-2** feet from north wall and edge of concrete slab covering former USTs location: Depth of sample collection: 6.7 feet. Pit run gravel. Gravel is coarse to fine, rounded, some SOILS sand but mostly gravel and very little silt (GW). East facing wall of excavation pit, just north of the **SAMPLE 6-20-3** 2:10 PM monitoring well at a depth of 6.8 feet. Pit run gravel, coarse to fine, with sand. Very little if any SOILS silt in the matrix (GW).



The samples were collected following EPA Method 5035A and Washington Department of Ecology (WDOE) protocol for collection of soil samples for VOC analysis: In particular, for testing of BTEX and TPH Gasoline. In addition a separate soil sample was collected for testing for Lead using Method 6010B/3051. After the samples were collected they were properly labeled, placed in an iced shipping container, and delivered in person to the EDGE Analytical Laboratory in Burlington, WA for analysis. The results of that analysis is presented in Table No. 5 as follows:

Table No. 5 TEST RESULTS OF SOILS ANALYSIS

SAMPLE No.	Benzene Method 8260B	Toluene Method 8260B	Ethylbenzene Method 8260B	Xylenes Method 8260B	Gasoline (C _s -C ₁₂) TPH	Lead: Method 6010B/3051
ACTION	0.03	7.0	6.0	9.0	100	250
LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
6-20-1	ND	ND	ND	ND	ND	6.23
6-20-2	ND	0.2	ND	ND	ND	2.14
6-20-3	ND	ND	ND	ND	ND	1.70

ND = Not Detected

RESULTS OF GROUND WATER TESTING FROM THE PIT AREA

Ground Water Testing on 12-30-2010

An initial ground water sample was collected from the pits during the winter months after work at the site had been suspended for the year. Using a new Teflon® bailer a water sample was collected from the pit area. The water samples were decanted into two 50-mL vials supplied by **EDGE Analytical Laboratory**. The hydrogeologist collecting the sample

made sure there were no air bubbles trapped inside the two sample containers. Next the two vials were with labeled with the date, time of sample collection and delivered in person to **EDGE Analytical Laboratory** under proper chain-of-custody for analysis. We requested the two water samples be tested for **BTEX and Lead**. The results were received from **EDGE Analytical Laboratory** on January 07, 2011 with the results that the ground water samples collected for **BTEX** and **Gasoline** were **Not Detected** and only low levels of dissolved **Lead** were present. This is consistent with the results of soils testing where contamination was not present.

Final Ground Water Sampling and Testing on July 22, 2011

A final ground water sample was collected from the pit prior to backfilling with pit run gravel on Friday July 22, 2011. As in the December 30, 2010 sampling, a water sample was collected from the pit using a new Teflon® bailer and the contents placed in two 50 mL glass vials and taken to **EDGE Analytical Laboratories** of Burlington, WA for testing for BTEX and Lead content. The results of both tests are presented in Table No. 6 which follows:

Table No. 6 Results of Laboratory Water Testing From Pit Area for BTEX and Lead: Water Sample Collected on 01-07-2011 and 07-22-2011

	Laboratory Test Results of Water Samples BTEX and Lead							
Field Sample	Benzene mg/L	Toluene mg/L	Ethylbenzene mg/L	Total Xylenes mg/L	Gasoline (C ₈ -C ₁₂)	Lead mg/L		
Ground Water Cleanup Standards	0.005 mg/L ^K ,	1.00 mg/L	0.50 mg/L	1.00 mg/L	1 mg/L	0.015 mg/L		
Water Sample Results 01-07-2011	ND	ND	ND	ND	ND	0.003 mg/L		

Ground Water Cleanup	mg/L 0.005 mg/L	1.00 mg/L	0.50 mg/L	mg/L 1.00 mg/L	1 mg/L	0.015 mg/L
Standards Water Sample Results 07-22-2011	ND	2.00	0.0004	0.0009		0.032 mg/L

ND = Not Detected

Discussion of Ground Water Testing

Results of the first ground water testing from the excavation were reported by **EDGE**Analytical Laboratory on January 07, 2011. The results of that test showed that **BTEX**and **Gasoline** were **Not Detected** and only low levels of dissolved **Lead** were present, which is consistent with the results of soils testing where contamination was not present.

Results of the final ground water sample collected from the pit area on July 22, 2011 showed that the pit water was reported **Not Detected** for Benzene, a known carcinogen. The water did test higher for Toluene at 2 mg/L and very low values for Ethlybenzene and Total Xylenes. Lead concentration was also slightly higher than before, at 0.032 mg/L. In our judgement, these values are not significant, especially since Benzene which is carcinogenic compound and was **Not Detected**.

REMEDIATION OF CONTAMINATED SOILS

Background

A remediation area was prepared to receive the contaminated soils for the Conway Feed site. The remediation area is located approximately 150 feet north of the excavation site and north of Main Street, which is oriented in an east-west direction (see Photographs in the back of this report). The initial cell-A, where the contaminated soils were placed was constructed with a perimeter of hay bales lined with black Visquine plastic sheeting to eliminate the possibility of contaminants from the soils leaching into the native soils below. The initial area for Cell-A measured approximately 12 feet wide and 26 feet long. The contaminated soils excavated from the test pits under the canopy began in November of 2010 and continued to the end of the month until the area under the canopy had been fully characterized. Eventually the cell length had to be extended to a total of 55 feet to accommodate all of the excavated soils from the test pits.

The thickness of the soils in the 12 by 55 foot Cell-A measured approximately 2.0 feet. Having an approximate area of 660 square feet, the total amount of contaminated soils removed from the pit area and transferred to Cell-A amounted to approximately 1,650 cubic feet or 61 cubic yards of contaminated soil. Before being abandoned for the winter during the period of high precipitation the entire remediation area was covered with black Visquine and weighted down with large rocks to keep out moisture and prevent the formation of leachate.

Resumption of Work Activities Beginning on June 13, 2011

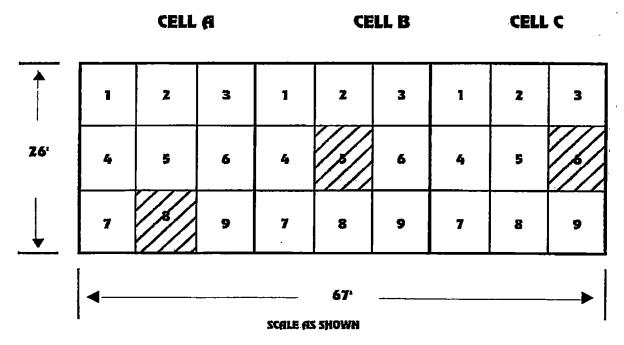
Ultra Tank, Inc. resumed work at the Conway Feed site on June 13, 2011. At this time of year there is less precipitation and the air temperature is much warmer. Excavation of the remaining contaminated soils in the pit began and these soils were moved to the remediation area where it was necessary to construct a second Cell-B lying parallel to the Cell-A. The combined areas measured approximately 24 feet wide and 67 feet long. The perimeter of Cell-B was also marked by hay bales laid end to end and the interior area was lined with black Visquine plastic sheeting to eliminate the possibility of contaminants from leaching into the native soils below. The combined surface areas of the two cells totaled 1,608 square feet and with an average thickness of 2 feet the two cells were capable of holding approximately 3,216 cubic feet or 119 cubic yards of contaminated soil.

Remediation of the Soils and Final Testing

Ultra Tank, Inc. leveled out the piles of contaminated soils using a small tractor and tiller attachment. The soils were constantly tilled on warm sunny days, allowing the natural forces of heat and bacterial action to remediate the soils. This process began on June 15, 2011 and continued into August. A PID meter was used to monitor the progress of the remediation process and indicate the presence of any hot spots caused by petroleum hydrocarbons in the soils. When petroleum hydrocarbons could no longer be detected the NWHGC geologist returned to the stockpiled soils site on August 01, 2011 for the purpose of sampling the remediated soils and testing for the presence of petroleum hydrocarbons.

The remediation area which measured 26 feet wide and 67 feet long was divided into three areas of equal size. The three areas or cells were further divided into nine separate segments, with each measuring approximately eight feet by seven feet or a total of 56 square feet each out of a total of 3,216 square feet. Using a computerized random number generator, a sampling location was selected for each cell based on the nine areas in each cell. The sample locations determined by this method were from Cell No. A Location 8, in Cell No. B Location 5 and in Cell No. C Location 6.

SKETCH OF REMEDIATION AREA



Soil Sample Collection and Testing From the Remediation Area

The three separate sets of soil samples were collected on August 01, 2011 using EPA Method 5035A and Washington Department of Ecology (WDOE) protocol for collection of soil samples for VOC Analysis. The day the samples were collected was warm and clear. The soils had been aerated using the tractor-tiller for nearly a month before the arrival of the geologist to collect three representative soil samples. The geologist observed that already the surface moisture had evaporated, leaving an overall tan color to the soils. Directly below the surface the soils were still damp and brown in color. After the sample locations were flagged based on the random sampling plan discussed before, soil samples were collected by the geologist. Wearing Nitrile® disposable gloves, soil samples were collected from the three sample locations. All three soil samples are best described as consisting of gravel, coarse to fine, rounded, some sand and some silt and classified as (GM) using the Unified Soil Classification System. The three sets of soil sample jars and vials were labeled in the field and placed in an iced shipping container. The soil samples were to be tested for the full range of volatile organic compounds and a variety of solid waste using Method 8260. This method is applicable to nearly all types of samples, regardless of water content, including various air sampling trapping media, ground and surface water, aqueous sludges, caustic liquors, acid liquors, waste solvents, oily wastes, mousses, tars, fibrous wastes, polymeric emulsions, filter cakes, spent carbons, spent catalysts, soils, and sediments. The three soil samples were delivered in person to the EDGE Analytical Laboratory in Burlington, WA for analysis on the same day. The results of the soils analysis from the remediation area are presented in Table No. 7 as follows:

Table No. 7 TEST RESULTS OF SOILS ANALYSIS COLLECTED FROM THE SOILS REMEDIATION AREA ON AUGUST 01, 2011

SAMPLE No.	Benzene Method 8260B	Toluene Method 8260B	Ethylbenzene Method 8260B	Xylenes Method 8260B	Gasoline (C ₈ -C ₁₂) TPH	Lead: Method 6010B/3051
ACTION	0.03	7.0	6.0	9.0	100	250
LEVEL	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
8-01-A	ND	ND	ND	ND	ND	13.7
8-01-B	ND	ND	ND	ND	ND	13.6
8-01-C	ND	ND	ND	ND	ND	18.8

ND = Not Detected

Discussion of Results

The soils were tested for a total of 78 organic compounds including **BTEX** and the additional test for **lead**. The suite of organic compounds tested covers the full range of potential organic compound contaminants that we can envision as appropriate to this area. The results clearly show that the remediated soils are now clean to EPA and the State of Washington standards and no longer pose a threat to the environment.

SUMMARY AND CONCLUSIONS

- 1) Two underground storage tanks (USTs) consisting of a 2,000 gallon diesel and a 1,000 gallon gasoline UST were decommissioned by removal from the Conway Feed site in December 1991 and early January 1992. It was noted in the report produced by Materials Testing and Consulting, Inc. (MTC) that corrosion and holes were observed in the bottom of both the diesel and gasoline USTs at the time of removal. Contamination was verified by the testing of soils from the pit excavation. Remediation of the site consisted of removing approximately 15 cubic yards of soils and back filling with clean pit-run gravel according to the MTC report.
- 2) A 2-inch diameter monitoring well was installed directly west (downgradient) of the former USTs in the backfill gravel and the ground water was tested on February 25, 1992 with the reported results that no contamination was found in the ground water.
- In September, 2008 **NWHGC** was contacted by Mr. Scott McKnight, General Manager of Conway Feed, to obtain closure on the previous work done at the site and obtain a letter of **No Further Action** from the Washington Department of Ecology (WDOE). **NWHGC** studied the previous work done at the site including the report submitted by **MTC**. **NWHGC** collected a new ground water sample from the 15-foot deep monitoring well constructed at the site in 1992 which showed the ground water was uncontaminated.
- A response to the report submitted by **NWHGC** was received on March 08, 2010 prepared by Ms. Libby S. Goldstein, NWRO Toxics Cleanup Program. Ms. Goldstein concluded the earlier work conducted by **MTC** was inadequate and did not fully characterize the site. Specifically Ms. Goldstein was concerned about the extent of soil contamination west of the former UST locations underneath the canopy and requested that further characterization work be conducted and a followup report submitted.
- Work began at the Conway Feed site on November 22, 2010. **ULTRA TANK Inc.**, began by breaking up and removing the concrete slab over the area west of the

former USTs. Once the slab was removed a series of test pits were dug using a small backhoe around the area under the canopy for the purpose of characterizing the site and determining where there was contamination and where there was none.

NWHGC collected a series of soil samples to confirm the findings of a portable PID meter used at the site to test the soils. Verification soils samples were collected and delivered to EDGE Analytical Laboratory for analysis.

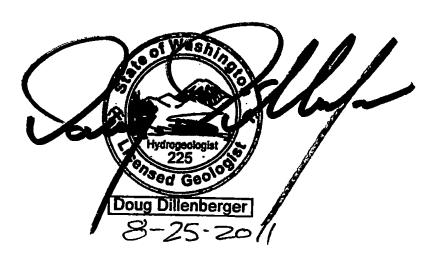
- Analysis of the soils showed that contamination of the soils was restricted to a zone directly west of the former two USTs. All of the contamination was confined to the range of gasoline. No diesel was detected, and lead was detected in only low concentrations. It was also determined that the product from the two USTs did not migrate under the existing warehouse building but was confined to the area in front.
- 7) Following site characterization activities the work was suspended during the winter and spring months of 2010 and 2011, with work commencing on June 13, 2011.
- Were removed from under the canopy and trucked 150 feet north to a level area used for storage and remediation of the contaminated soils. The combined surface areas of the two cells totaled 1,608 square feet and with an average thickness of 2 feet the two cells were capable of holding approximately 3,216 cubic feet or 119 cubic yards of contaminated soil.
- Three additional soil verification samples were collected from the pit along the east facing wall. In addition another ground water sample was collected from the pit area and tested for BTEX and Lead. The laboratory tests showed the soils and ground water were clean to EPA and WDOE standards and the pit is now clean. Following the testing the excavated pit was backfilled with layered pit-run gravel, compacted at each layer.
- 10) Three soil samples were collected from the remediation area based on a random sampling methodology. These soils were tested for the full range of volatile organic compounds which can occur in a variety of solid waste materials using Method 8260. The soils were tested for a total of 78 organic compounds including BTEX with an additional test for lead. The suite of organic compounds tested covers the full range of potential organic compound contaminants that we consider appropriate

ample A?

for the area. The results clearly show that the remediated soils are now clean to EPA and the State of Washington standards and no longer pose a threat to the environment. All work at the site was fully documented with photographs, measurements and drawings.

11) In conclusion we have determined that the subject site at the Conway Feed Company is now clean to state and federal standards. After reviewing this document, we request that the Washington Department of Ecology issue to Conway Feed Company a letter of **No Further Action** for the site where the former USTs were located.

Sincerely,



Doug Dillenberger, L.G., L.HG. ▼ Principal Washington Licensed Geologist / Hydrogeologist

Northwest HydroGeo Consultants

C:\Users\NW HydroGeo\Doug (ACTIVE FILES)\Remediation\Conway Feed\Conway Feed Report.wpd

1 11

41

, ' #' 1, '₁

INDEMNIFICATION AND LIMITATIONS

This report presents conditions observed during our site visit and subsequent investigation, data analysis, and reporting. Our services were provided with due diligence and observance of protocols and procedures applicable to this situation, and in accordance with the terms presented in our General Conditions. This project was conducted and this report prepared in accordance with generally accepted professional practices for the nature and conditions of the work completed in this area at the time the work was performed. This report and its conclusions and recommendations are intended for the exclusive use of the Client for specific application to the referenced project site. The photographic images appear as they were taken, with no digital changes or modifications.

As is now common in the profession, our general liability insurance carriers specifically exclude coverage for claims or damages related to the release of pollutants. Therefore, as a condition of our services, it is understood that, to the fullest extent permitted by law, our Clients agree to defend, indemnify and hold harmless Northwest HydroGeo Consultants, its owners, employees, subcontractors and agents, from any past, present, or future pollution-related claims or damages at the site, including potential claims from third parties that may name Northwest HydroGeo Consultants as a claimant. Northwest HydroGeo Consultants assumes no responsibility or liability for the accuracy, storage, transmission, or delivery of database and file search information provided for this project.

Within the limitations of scope, project schedule, and budget for our services, we warrant that our services have been provided in accordance with the terms of our Proposal and under the generally accepted professional environmental assessment practices at the time the report was prepared. No other warranty, express or implied, is made.

REFERENCES

- **Dillenberger, D.S.,** 2008, "Hydrogeologic Investigation," Unpublished report prepared for Mr. Scott McKnight, General Manager, Conway Feed, 11 pp.
- Dragovich, J., 2002, "Geologic Map of Washington, Northwest Quadrant," Published by the Washington Division of Geology and Earth Resources, Geologic Map GM-50.
- Materials Testing and Consulting, 1992, "Site Assessment Report from MTC," Unpublished report prepared by MTC for Conway Feed, 3 pp.



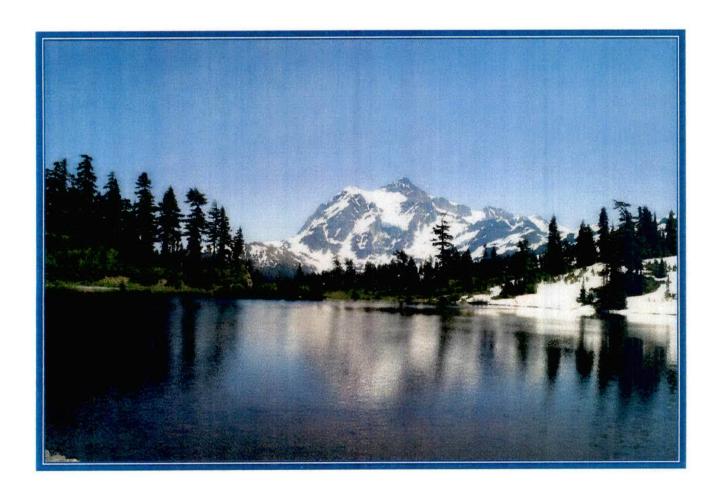
1941 LAKE WHATCOM BOULEVARD ▼ B-113 BELLINGHAM, WASHINGTON 98229-2777 (360) 734-4955 TOLL-FREE (800) 457-1902

FAX: (360) 734-7689 EMAIL: nwhydrogeo@msn.com

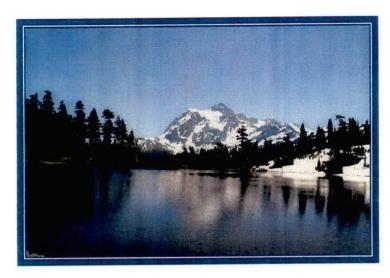
WEBSITE: www.nwhydrogeo.com

CONSULTING ENVIRONMENTAL PROFESSIONALS

GEOLOGY, GROUND WATER, and ENVIRONMENTAL SITE ASSESSMENTS



STATEMENT OF QUALIFICATIONS





CONSULTING ENVIRONMENTAL PROFESSIONALS GEOLOGY, GROUND WATER, and ENVIRONMENTAL SITE ASSESSMENTS

LICENSING, CERTIFICATIONS and QUALIFICATIONS

Northwest HydroGeo Consultants is fully licensed, certified, qualified and experienced to provide professional consulting services for your projects throughout the Western Washington area.

The objective of **ENVIRONMENTAL CONSULTING** is to assess general site conditions and characterize the overall environmental, geological and ground water concerns for the site and its surrounding area.

Our Professional holds the B.A. and the M.S. in Geology, with additional studies and certification in Ground Water and Environmental Services. In our 17 years of independent professional consulting we have provided **ENVIRONMENTAL SITE ASSESSMENTS**, **Phases I**, **II** and **III** for a variety of real estate, development, financial institutions and individuals throughout this area.

We are fully qualified and experienced in conducting **Environmental Site Assessments** under the **Due Diligence** requirements of the **ASTM E-1527-05** and **EPA AAI** regulations. We have obtained **NO FURTHER ACTION** letters on behalf of our clients from the Washington Department of Ecology for successfully remediated sites, acknowledging that the sites have been remediated to acceptable standards and require no further action.

Overall we have accomplished some 350 Environmental Site Assessments, have provided aquifer testing for nearly 100 Group A and Group B water systems, and have conducted over 30 wellhead protection studies. We further provide Hydrogeologic Reports under the requirements of the various county **Critical Areas Ordinance** statues, to evaluate aquifer and ground water conditions, slope stability, and other issues as defined by these ordinances.

Call on us with confidence for quality professional consulting services. We look forward to working with you on your projects.

360.634-4955 Toll Free 800.457-1902 FAX 360.734-7689

email: nwhydrogeo@datalinkwest.com



It is hereby certified that Douglas Scott Dillenberger

has satisfactorily complied with and completed the statutory requirements set forth in title 18 revised code of Washington to engage in practice as a

Geologist

And is hereby authorized, empowered and granted the right to engage in that practice within the State of Washington subject to the state laws.

And is licensed as a qualified

Hydrogeologist

Given under the hand and seal of the director this 16th day of November, 2001.

Fiel Slephens

Geologist Licensing Board

No. 225



1941 Lake Whatcom Boulevard ▼ B3 #113 Bellingham, WA 98229-2777

Ph 360.734-4955 Toll-Free 800.457-1902 FAX 360.734-7689

WEBSITE: www.nwhydrogeo.com email: nwhydrogeo@datalinkwest.com

STATEMENT OF QUALIFICATIONS AND RÉSUMÉ

DOUGLAS S. DILLENBERGER, M.S., L.G., L.HG. WASHINGTON LICENSED GEOLOGIST / HYDROGEOLOGIST No. 225

SUMMARY OF PROFESSIONAL EXPERIENCE

Our Principal, **Doug Dillenberger**, is a **Washington Licensed Geologist** and **Hydrogeologist** offering over thirty years' experience in earth sciences, environmental site assessments, geology and hydrogeology. Mr. Dillenberger, licensed professionally in the states of **Washington and Oregon**, holds the Master's Degree in Geology with postgraduate studies in Hydrogeology at the Colorado School of Mines in Golden, Colorado. He is a nationally **Registered Professional Geologist** and a **Washington State Certified UST Site Assessor**. For twenty years he has worked professionally throughout this six-county western Washington area and is in his fifteenth year as an independent professional consultant.

His comprehensive expertise focuses on environmental assessments; geological and hydrogeological investigations and assessments; critical areas ordinance reports; regional and local ground water characterization; environmental analysis and monitoring; contaminant characterization, evaluation and remediation; shoreline analysis; nitrate loading calculations; aquifer testing, characterization and evaluation; and wellhead protection studies.

Mr. Dillenberger is a **Certified Washington UST Site Assessor** qualified to supervise removal of **underground storage tanks** and to investigate, delineate, monitor, and remediate site contamination. He has successfully obtained **NFA** – **No Further Action** – letters from the State Department of Ecology for sites successfully remediated on behalf of clients. In addition, his professional experience includes coal exploration and development—planning and supervising coal exploration projects in the Bellingham area for a large national energy company.

SELECTED PROFESSIONAL ACCOMPLISHMENTS

Northwest HydroGeo Consultants is in its fifteenth year providing independent consulting services in geology, environmental and ground water projects for clients in the Pacific Northwest. Our qualifications and the full range of professional geological, hydrogeological and environmental services are presented in the **Statement of Qualifications** information packet.

Northwest HydroGeo Consultants was founded in March 1995, serving Northwest Washington and
offering specialized and full-service professional consulting services in aquifer testing and evaluation,
geo-hazard and shoreline evaluations, project design and management, environmental site
assessments, contaminant characterization and remediation, and, environmental monitoring.

During this period our Principal has accomplished some 400 Environmental Site Assessments, Phases I, II and III, and has received letters of **NFA** (No Further Action) from the State Department of Ecology under the requirements of the Voluntary Cleanup Program for successful cleanup of petroleum-contaminated sites.

He has conducted aquifer testing for nearly 100 Group A and Group B systems, and for individual

property and project wells. He has provided ground water studies and aquifer characterization for development and planning information per Hydrogeologic Investigation reports. He has prepared wellhead protection plans for over 30 **Group A** water systems of various sizes throughout the western Washington region. He is currently conducting quarterly ground water monitoring for a gravel mining operation near the Canadian border.

SUMMARY OF PROFESSIONAL HISTORY

1995-Present	Principal, Northwest HydroGeo Consultants
1992-1995	Manager of Professional Services: Hayes Drilling, Inc.; Bow, Washington
1990-1992	Hydrogeologist: W.D. Purnell and Associates; Bellingham, Washington
1988-1990	Senior Geologist: CES, Ltd;, Portland, Oregon
1987-1988	Senior Staff Geologist: The Mark Group; Las Vegas, Nevada
1985-1987	Independent Consulting Geologist: Denver, Colorado
1978-1985	Exploration Geologist: AMAX Coal Company; Denver, Colorado
1977-1978	Staff Geologist, Development Drilling: AMAX Coal Co.; Indianapolis, Indiana
1976-1977	Development Geologist: ADA Resources; Barbourville, Kentucky

PROFESSIONAL REGISTRATION AND CERTIFICATION

Licensed Geologist and Hydrogeologist No. 225

Registered Professional Geologist No. G1010

Certified Professional Geologist

No. 7363

American Institute of Professional Geologists

Certified UST Site Assessor

(Certified UST Site Assessor per Washington Department of Ecology regulations and training)

Annual Refresher Training: 8-Hour Hazardous Waste Operations and Emergency Response

OLTRAIN www.oltrain.com

PROFESSIONAL MEMBERSHIPS

American Association of Professional Geologists
Association of Ground Water Scientists and Engineers
National Association of Environmental Professionals
National Ground Water Association No. 120214
Washington State Ground Water Association

EDUCATION

Hydrogeology	Colorado School of Mines, Postgraduate Studies	1987
M.S., Geology	Eastern Kentucky University; Richmond, Kentucky	1976
B.A., Geology	University of South Florida; Tampa, Florida	1972
A.A., General	Pensacola Community College; Pensacola, Florida	1970

MILITARY SERVICE

1964-1968 Top Secret Crypto security clearance with Army Security Agency, U.S. Army Forces, Europe. Held. Honorably discharged up fulfillment of enlistment.





FIGURES and PHOTOGRAPHS



T 33 N R 04 E, W.M. Sec 19 NW 2185 PARCEL P16852

RED ARROW INDICATES LOCATION OF EXCAVATION AND MONITORING WELL
YELLOW ARROW INDICATES SOIL STOCKPILE AND REMEDIATION AREA

MAP REFERENCE

> GOOGLETM SOFTWARE

S P O T SATELLITE IMAGE

© 2011

AERIAL VIEW with PROJECT LOCATION

CONWAY FEED

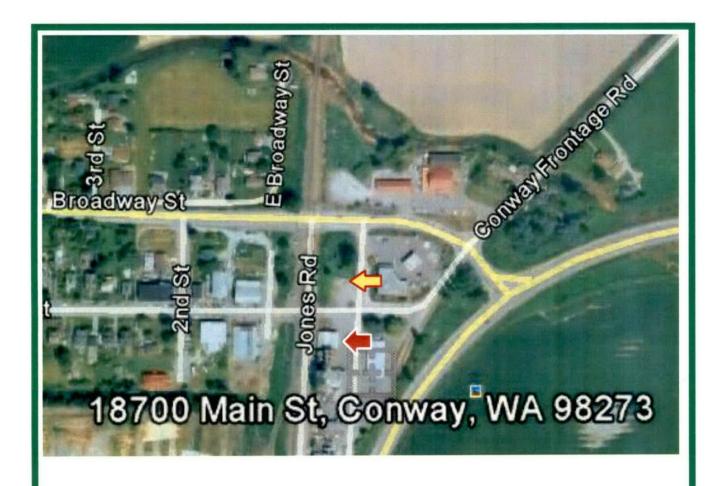
18700 MAIN STREET . CONWAY, WA 98238 SKAGIT COUNTY

SCOTT McKNIGHT, GENERAL MANAGER

PN 2K1104-1 AUGUST 2011



Figure 1



T 33 N R 04 E, W.M. Sec 19 NW 2185 PARCEL P16852



RED ARROW INDICATES LOCATION OF EXCAVATION AND MONITORING WELL



YELLOW ARROW INDICATES SOIL STOCKPILE AND REMEDIATION AREA

MAP REFERENCE

SOFTWARE

SPOT SATELLITE IMAGE

@ 2011

AERIAL VIEWwith PROJECT LOCATION

CONWAY FEED

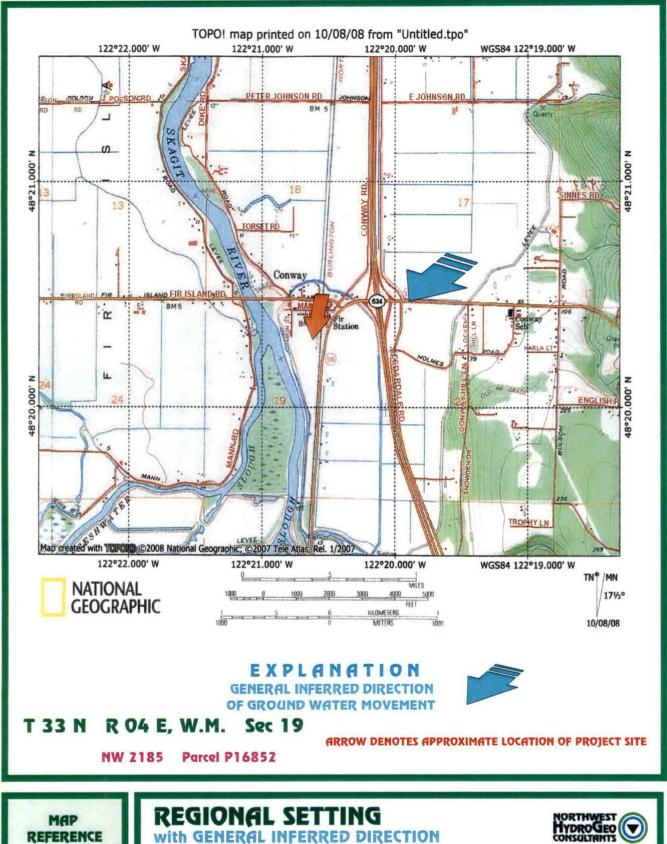
18700 MAIN STREET . CONWAY, WA 98238 SKAGIT COUNTY

SCOTT McKNIGHT, GENERAL MANAGER

PN 2K1104-1AUGUST 2011

HYDROGEO CONSULTANTS

Figure 1- A





TOPOI SOFTWARE

NATIONAL BEOGRAPHIC © 2004

SCALE AS SHOWN

REGIONAL SETTING

with GENERAL INFERRED DIRECTION OF GROUND WATER MOVEMENT

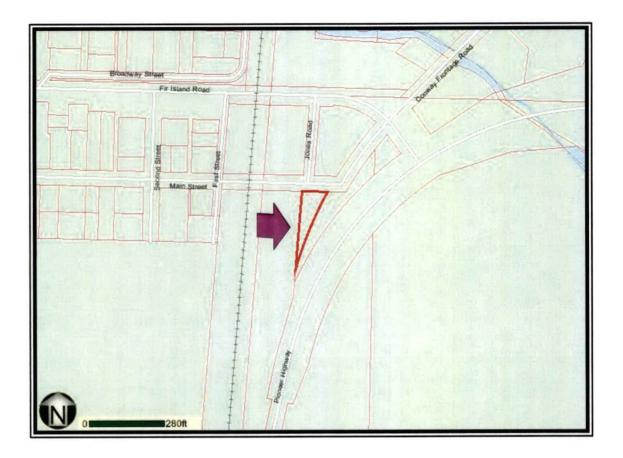
CONWAY FEED

18700 MAIN STREET . CONWAY, WA 98238 SKAGIT COUNTY

SCOTT McKNIGHT, GENERAL MANAGER

PN 2K1104-1 AUGUST 2011

Figure 2



CONWAY FEED

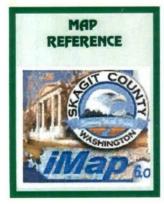
18700 MAIN STREET CONWAY, WA 98238

NW 2185

PARCEL No. P16852

T 33 N R 04 E, W.M. Sec 19

ARROW DENOTES SUBJECT SITE



PARCEL MAP

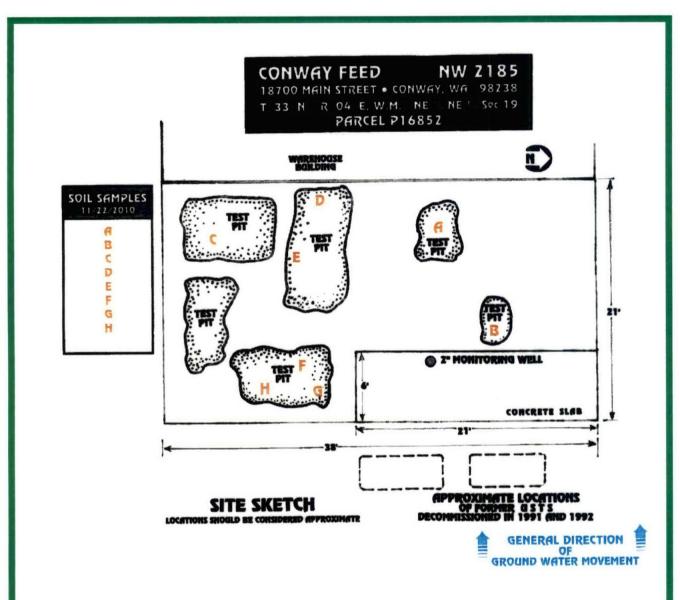


CONWAY FEED

18700 MAIN STREET - CONWAY, WA 98238 SKAGIT COUNTY

SCOTT McKNIGHT, GENERAL MANAGER

PN 2K1004-1 AUGUST 2011



SITE SKETCH DEPICTS AREA IN FRONT OF WAREHOUSE BUILDING
THAT WAS NEAREST THE FORMER U S Ts
AND WHICH WAS EXCAVATED FOR THE INVESTIGATION

T 33 N R 04 E, W.M. Sec 19

NW 2185 PARCEL P16852

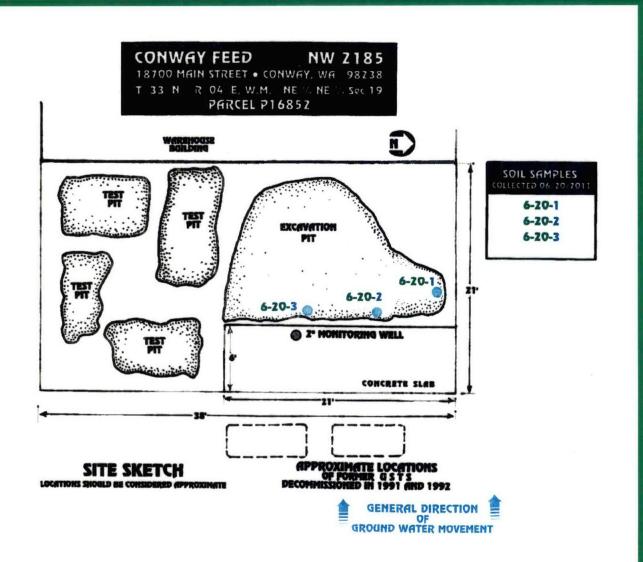
SOIL SAMPLING LOCATIONS NOVEMBER 2010



CONWAY FEED

18700 MAIN STREET . CONWAY, WA 98238 SKAGIT COUNTY

SCOTT McKNIGHT, GENERAL MANAGER
PN 2K1104-1 AUGUST 2011



SITE SKETCH DEPICTS AREA IN FRONT OF WAREHOUSE BUILDING
THAT WAS NEAREST THE FORMER U S Ts
AND WHICH WAS EXCAVATED FOR THE INVESTIGATION

T 33 N R 04 E, W.M. Sec 19

NW 2185

PARCEL P16852

SOIL SAMPLING LOCATIONS JUNE 2010

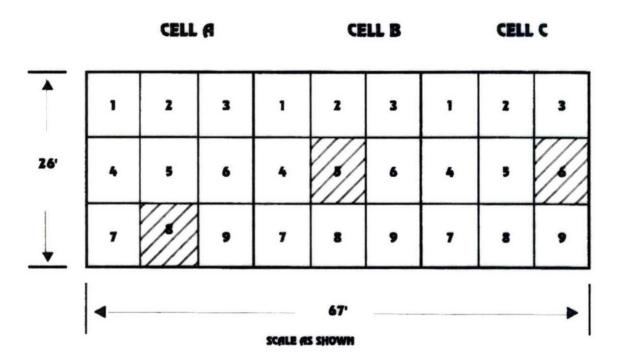


CONWAY FEED

18700 MAIN STREET • CONWAY, WA 98238 SKAGIT COUNTY

SCOTT McKNIGHT, GENERAL MANAGER
PN 2K1104-1 AUGUST 2011

SKETCH OF REMEDIATION AREA



SHADED AREAS INDICATE LOCATIONS OF SAMPLES, SELECTED AT RANDOM

SAMPLES COLLECTED AUGUST 01, 2011

LOCATIONS SHOULD BE CONSIDERED APPROXIMATE

SITE SKETCH DEPICTS AREA NORTH OF WAREHOUSE BUILDING WHERE EXCAVATED SOILS WERE REMEDIATED

T 33 N R 04 E, W.M. Sec 19 NW 2185 PARCEL P16852

SOIL SAMPLING LOCATIONS *AERATED REMEDIATION AREA*



SAMPLES COLLECTED AUGUST 01, 2011

CONWAY FEED

18700 MAIN STREET . CONWAY, WA 98238 SKAGIT COUNTY

SCOTT McKNIGHT, GENERAL MANAGER

PN 2K1104-1 AUGUST 2011

UNIFIED SOIL CLASSIFICATION

Main Division o	f Soil Groups	Fines Percentage finer than 0.06 mm	Soil Groups	Grou Symt		Sub-Group Symbols	Soil Name
	Gravel More than 50 per cent	0-5	Gravel	G		GW GP GPu GPg	Gravel, well graded Gravel, poorly graded Gravel, unlformly graded Gravel, gap graded
	of coarse materials is		Gravel, silty		GM	GML etc.	Gravel, silty, of low plasticity
Coarse Solls	larger than 2 mm	5-35	Gravel with Fines	GF			
More than 35 per cent			Gravel, clayey		ec	GCL etc.	Gravel, clayey, of low plasticity
of the material less than 60 mm is larger than 0.06 mm	Sand More than 50 per cent	0-5	Sand	S		SW SP SPu SPg	Sand, well graded Sand, poorly graded Sand, uniformly graded Sand, gap graded
	of coarse materials is		Sand, silty		SM	SML etc.	Sand, silty, of low plasticity
	smaller than 2 mm	5-35	Sand with Fines	SF			ł
			Sand, clayey		sc	SCL etc.	Sand, clayey, of low plasticity
		1	Silt, gravelly	T	MG	MLG etc.	Slit, gravelly, of low plasticity
	Silts and Clays,		Fine Soil, gravelly Clay, gravely	FG	CG	CLG etc.	Clay, gravelly, of low plasticity
	Gravelly or Sandy	35-65	Silt, sandy		MS	MSL etc.	Silt, sandy, of low plasticity
Fine Soils More than 35 per cent			Fine Soll, sandy Clay, sandy	FS	CS	CLS etc.	Clay, sandy, of low plasticity
of the material less than 60 mm is larger than 0.06 mm	Silts and Clays	65-100	Silt (M-Soli) Fine Soli Clay	F	M C	ML etc. CL CI CH CV CE	Silt of low plasticity Clay of low plasticity Clay of intermediate plasticity Clay of high plasticity Clay of very high plasticity Clay of extremely high plasticity
Organic Soils	Organic Sand, silt or clay			Su	scripti fixed i mbol	ve letter O o any	·
Peat	Predominantly plant re	mains which may be	e fibrous or amorphou	3	PT	<u> </u>	

Note: Material coarser than 60 mm is removed and recorded as cobbles (60–200 mm) or boulders (over 200 mm).

SITE PHOTOS

FOLLOW-UP INVESTIGATION

SOILS & GROUND WATER

CONWAY FEED 18700 Main Street Conway, WA 98238

NW 2185

PN 2K1004-1 · August 2011

NOVEMBER 16, 2010

1

BEGINNING OF SITE REMEDIATION WORK AT THE **CONWAY FEED** SITE, BREAKING UP THE CONCRETE SLAB OVERLYING POTENTIAL CONTAMINATED SOIL AREA.

NOVEMBER 18, 2010

2

CONCRETE SLAB BROKEN UP AND REMOVED.

TEST PITS BEING DUG IN SOILS TO DETERMINE WHERE AND THO WHAT DEGREE CONTAMINATION EXISTS.





NOVEMBER 29, 2010

3

TEST PIT DUG UNDER FORMER SLAB.



COUZULIANI2

IMAGE CONTENT HAS NOT BEEN ALTERED



FOLLOW-UP INVESTIGATION SOILS & GROUND WATER CONWAY FEED 18700 Main Street Conway, WA 98238 NW 2185 PN 2K1004-1 • August 2011

NOVEMBER 29, 2010



BEGINNING OF SITE REMEDIATION WORK AT THE **CONWAY FEED** SITE, BREAKING UP THE CONCRETE SLAB OVERLYING POTENTIAL CONTAMINATED SOIL AREA.



SOILS BEING DUMPED AT REMEDIATION SITE, PREPARED IN ADVANCE, AND LINED WITH VISQUINE® BLACK PLASTIC SHEETING.

HAY BALES DEFINE LIMITS OF REMEDIATION AREA.







SOILS WERE COVERED WITH VISQUINE® AND SECURED WITH HAY BALES TO ELIMINATE THE POTENTIAL FOR LEACHATE FORMATION DURING THE RAINY SEASON.





SITE PHOTOS FOLLOW-UP INVESTIGATION SOILS & GROUND WATER

CONWAY FEED 18700 Main Street Conway, WA 98238

NW 2185

PN 2K1004-1 - August 2011

NOVEMBER 29, 2010

LEO DAY, PRESIDENT OF ULTRA TANK SERVICES, Inc., MEASURING DEPTH TO BOTTOM OF EXCAVATION PIT..



EXCAVATION PIT ACCUMULATED GROUND WATER FROM NOVEMBER TO DECEMBER, THE RESULT OF GROUND WATER







PROJECT HYDROGEOLOGIST COLLECTING DEPTH TO WATER INFORMATION FROM EXISTING MONITORING WELL AT THE SITE..



IMAGE CONTENT HAS NOT BEEN ALTERED

FOLLOW-UP INVESTIGATION SOILS & GROUND WATER CONWAY FEED 18700 Main Street Conway, WA 98238 NW 2185

PN ZK1004-1 · August 2011

DECEMBER 29, 2010

10

HYDROGEOLOGIST COLLECTING WATER SAMPLES FROM EXCAVATION PIT CONTAINING GROUND WATER.



JUNE 20, 2011

11

IN JUNE 2011, REMEDIATION ACTIVITIES RESUMED AT THE SITE.

THIS VIEW SHOWS REMOVAL OF THE LAST OF THE CONTAMINATED SOILS FROM THE EXCAVATION PIT.



12

VIEW LOOKING EASTWARD AT INTERCEPTION OF FILL MATERIAL FROM FORMER UST EXCAVATION AREA.

THREE SOIL SAMPLES COLLECTED FROM THIS GENERAL AREA WERE REPORTED NOT DETECTED BY LABORATORY ANALYSIS.





SITE PHOTOS FOLLOW-UP INVESTIGATION SOILS & GROUND WATER CONWAY FEED 18700 Main Street Conway, WA 98238 **NW 2185**

PN 2K1004-1 • August 2011

JUNE 24, 2011

ANOTHER VIEW OF THE LARGE EXCAVATION AREA.



VIEW LOOKING SOUTH, SHOWING LARGE EXCAVATION AREA AND EXISTING TEST PITS IN BACKGROUND.





15

AFTER CONTAMINATED SOILS WERE REMOVED, THE AREA WAS BACKFILLED WITH CLEAN MATERIAL CONSISTING OF GRAVEL, SAND AND SILT..





SITE PHOTOS

FOLLOW-UP INVESTIGATION

SOILS & GROUND WATER

CONWAY FEED • 18700 Main Street • Conway, WA 98238 NW 2185

PN 2K1004-1 · August 2011

AUGUST 01, 2011

16

ULTRA TANK SERVICES, Inc. AERATING THE STOCKPILED SOILS REMOVED FROM THE PIT AREA.



17

FINAL SOIL SAMPLES COLLECTED FROM REMEDIATION AREA.

RED FLAGGING MARKS SAMPLE COLLECTION LOCATIONS.





APPENDIX

EDGE ANALYTICAL LABORATORIES REPORT

Soil Samples Collected on November 18, 2010
Sample Locations A and B

Soil Samples Collected on November 22, 2010
Sample Location C

Soil Samples Collected on November 29, 2010 Sample Locations D, E, F, G and H

Soil Samples Collected on June 20, 2011 Sample Locations 1, 2 and 3

Stockpile Soil Samples Collected on August 01, 2011
Sample Locations A, B and C

Ground Water Samples Collected on:

- 1) December 30, 2010
- 2) July 22, 2011

Soil Samples Collected on November 18, 2010
Sample Locations A and B



1620 S Walnut St - 98233 800.755.9295 • 360.757,1400

Bellingham WA Microbiology

360.671.0688

Portland OR Microbiology/Chemistry 805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 503.682.7802

December 6, 2010

Page 1 of 1

Mr. Doug Dillenberger NW HydroGeo Consultants 1941 Lake Whatcom Blvd B3 #113 Bellingham, WA 98229

RE: 10-17665 - 2K1001

Dear Mr. Doug Dillenberger,

Your project: 2K1001, was received on Thursday November 18, 2010.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully Submitted,

Lawrence | Henderson, PhD Director of Laboratories

Enclosures Data Report



1620 S Walnut St - 98233

800,755.9295 • 360,757.1400 360.671.0688

Bellingham WA Microblology

805 Orchard Dr Ste 4 - 98225

Portland OR Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

6010B/3051

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17665

Project: 2K1001

Report Date: 12/6/10

Date Received: 11/18/10

12/2/10

60108-1012028

Reviewed by:

Sample Date: 11/18/10 Sample Description: A - 2K1001 Collected By: Unknown Lab Number: 39628

Parameter Result PQL MRL MDL Units DF Method Analyzed Analyst Batch Comment CAS ID# TOTAL SOLIDS 62.0 0.1000 0.1000 SM2540 G 11/22/10 SRF TS_101122 1.00 E-10151

mg/Kg

1.00

1.28

Sample Date: 11/18/10 Sample Description: B - 2K1001 Collected By: Unknown Lab Number: 39629

1.28

6.32

CAS ID#	Parameter	Result	PQL	MRL MDL	Units	DF	Method	Analyzed	Analyst	Batch Comment
E-10151	TOTAL SOLIDS	48.2	0.1000	0.1000	*	1.00	SM2540 G	11/22/10	SRF	TS_101122
7439-92-1	LEAD	19.0	1.96	1.96	mg/Kg	1.00	6010B/3051	12/2/10	ស	6010B-101202B

7439-92-1

LEAD

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.



1620 S Welnut St - 98233 800.755,9295 - 360.757.1400 360.671.0688

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225

Portland JR Microbiology/Chemistry

9150 SW Pioneer Ct Sta W- 97070

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17665

Project: 2K1001 Report Date: 11/29/10

Date Received: 11/18/10

Peer Review:

Sample Description: A - 2K1001

Lab Number: 39628

Date 11/23/10

Sample Date: 11/18/10 Collected By: Unknown

Analyzed By: EM

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101123	Lab DUP: ND
HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/3550B	DXS_101123	Lab DUP: ND

Sample Description: B - SK1001

Lab Number: 39629

Date 11/23/10

Sample Date: 11/18/10 Collected By: Unknown Analyzed By: EM

Cleanup Comment Parameter Result Level **PQL** MDL Units Method Bätch Flag ND 2000 25 mg/Kg NWTPH-Dx/3550B DXS_101123 **DIESEL (C12 - C24)** 1 50 mg/Kg NWTPH-Dx/3550B ND 2000 DXS 101123 **HEAVIER OILS (>C24)** 40 50

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



1620 S Walnut St - 98233

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

Portlan JR Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

2650

2

100/30*

Reference Number: 10-17665

Project: 2K1001 Report Date: 11/29/10

Date Received: 14/18/10

Peer Review:

Sample Description: A - 2K1001

Lab Number: 39628

Date 11/29/10

Sample Date: 11/18/10 Collected By: Unknown Analyzed By: HY

Cleanup Batch Parameter Result Flag DF Level PQL MDL Units Method Comment BENZENE 2 0.03 0.050 mg/Kg 8260B/5035A GXS_101122 TOLUENE 0.3 7.0 0.20 mg/Kg 8260B/5035A GXS_101122 2 **ETHYLBENZENE** 21.9 2 6.0 0.20 mg/Kg 8260B/5035A GXS 101122 mg/Kg 44.5 8260B/5035A **TOTAL XYLENES** 2 9.0 GXS_101122 0.40

50

Sample Description: B - SK1001

GAS Range Organics

Lab Number: 39629

Date 11/29/10

Sample Date: 11/18/10 Collected By: Unknown

Analyzed By: HY

GXS_101122

				Cleanup	,						
Parameter	Result	Flag	DF	Level	PQL	MDL	Units	Method	Batch	Comment	
BENZENE	ND		1	0.03	0.025	-	mg/Kg	8260B/5035A	GXS_101122		
TOLUENE	ND		1	7.0	0.10	-	mg/Kg	8260B/5035A	GXS_101122		
ETHYLBENZENE	ND		1	6.0	0.10	-	mg/Kg	8260B/5035A	GXS_101122		
TOTAL XYLENES	1.1		1	9.0	0.20	×	mg/Kg	8260B/5035A	GXS_101122		
GAS Range Organics	90.5		1	100/30*	25	2	mg/Kg	8260B/5035A	GXS_101122		

mg/Kg

8260B/5035A

Notation:

Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions. D.F. - Dilution Factor







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 10-17665

Report Date: 11/29/10

Lab No	Analyte	Result Qualifier	Units	Method	Limit
DXS_101123 39628	O-TERPHENYL	91	%	NWTPH-Dx	
GXS_101122 39628	d8-TOLUENE (Surr)	101	%	8260B	Acceptance Range: 50-150%
DXS_101123					
39629	O-TERPHENYL	101	%	NWTPH-Dx	
39629	d8-TOLUENE (Surr)	102	%	8260B	Acceptance Range: 50-150%



Burlington WA

1620 S Walnut St - 98233

800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA

805 Orchard Dr Ste 4 - 98225

Portland OR Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503,682,7802 Page 1 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 10-17665

	one u								
			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	QualifierType*	Comment
6010B-101202B	LEAD	0.93	1	mg/L	6010B	93	70-130	LFB	
DXS_101123	DIESEL (C12 - C24)	129	125	mg/Kg	NWTPH-Dx	103	80-120	LFB	
DX5_101123	O-TERPHENYL	103	125	™g/Ng %	NWTPH-Dx	100	70-130	•	
GXS_101122	BENZENE	1.0	1	mg/Kg	8260B	100	70-130	LFB	
	d8-TOLUENE (Surr)	111		%	8260B				
	ETHYLBENZENE	1.1	1	mg/Kg	8260B	110	70-130		
	GAS Range Organics	202	250	mg/Kg	8260B	81	70-130		
	TOLUENE	1.1	1	mg/Kg	8260B	110	70-130		
	TOTAL XYLENES	2.9	3	mg/Kg	8260B	97	70-130		

^{*}Notation;

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Burlington WA

Corporate Office 1620 S Walnut St - 98233 800.755.9295 • 360.757.1400

Bellingham WA

805 Orchard Dr Ste 4 - 98225 360.671.0688

Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070
503.682.7802

Portland OR

Page 2 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 10-17665

Report Date: 12/06/10

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment
6010B-101202B	LEAD	ND		mg/L	6010B	0.00100	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Burlington WA
Corporate Office
1620 S Walnut St - 98233

Bellingham WA Microbiology Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

9150 SW Pioneer Ct Ste W- 97070 503.682.7802 Page 3 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 10-17665

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	QualifierType*	Comment
6010B-101202B	LEAD	ND		mg/L	6010B	3.1200	D MB	
DXS_101123	DIESEL (C12 - C24)	ND		mg/Kg	NWTPH-Dx	6,2500	0 MB	
	HEAVIER OILS (>C24)	ND		mg/Kg	NWTPH-Dx	10.000	oc .	
	O-TERPHENYL	105		%	NWTPH-Dx	0.0000	0	
GXS_101122	BENZENE	ND		mg/Kg	8260B	0.0600	0 MB	TB 10-17665
	d8-TOLUENE (Surr)	106		%	8260B			TB 10-17665
	ETHYLBENZENE	ND		mg/Kg	8260B	0.0600	0	TB 10-17665
	GAS Range Organics	ND		mg/Kg	8260B	5.0000	0	TB 10-17665
	TOLUENE	ND		mg/Kg	8260B	0.0600	0	TB 10-17665
	TOTAL XYLENES	ND		mg/Kg	8260B	0.0600	0	TB 10-17665

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB; Method Blank or Laboratory Reagent Blank, an allquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Burlington WA

1620 S Walnut St - 98233 805 Orchard D 800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA

805 Orchard Dr Ste 4 - 98225

Portland OR
Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682.7802 Page 4 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 10-17665

Report Date: 12/06/10

			True			%		QC		
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment	
6010B-101202B	LEAD	0.98	1	mg/L	6010B	98	70-130	QCS		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Burlington WA Corporate Office 1620 S Walnut St - 98233 Bellingham WA

Portland OR Microbiology/Chemistry

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 800.755,9295 • 360,757.1400 360.671,0688

503.682.7802



Page 1 of 2

Reference Number: 10-17665

Report Date: 12/6/2010

SAMPLE DEPENDENT **QUALITY CONTROL REPORT**

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Dup	licate
-----	--------

				Duplicate				QC		
Batch	Sample	Analyte	Result	Result	Units	%RPD	Limits	Qualifier	Туре	Comments
6010B-101	202B								·	
	39518	LEAD	19.8	22.2	mg/Kg	11.4	0-45		DUP	
DXS_1011:	23									
	39628	O-TERPHENYL	91	85	%	6.8	0-50		DUP	
GXS_1011	22									
	39628	BENZENE	1	1	mg/Kg	0.0	0-50		DUP	
	39628	TOLUENE	0.3	0.4J	mg/Kg	28.6	0-50		DUP	
	39628	ETHYLBENZENE	21.9	20	mg/Kg	9.1	0-50		DUP	
	39628	TOTAL XYLENES	44.5	46.4	mg/Kg	4.2	0-50		DUP	
	39628	GAS Range Organics	2650	2470	mg/Kg	7.0	0-50		DUP	
	39628	d8-TOLUENE (Surr)	101	102	%	1.0			DUP	
TS_101122	2									
	39877	TOTAL SOLIDS	83.2	85.8	%	3.1	0-45		DUP	
	39947	TOTAL SOLIDS	66.4	66.0	%	0.6	0-45		DUP	



Page 2 of 2

Reference Number: 10-17665

Report Date: 12/6/2010

Matrix Spike

Matrix S	Matrix Spike						Duplicate									
				Spike	Spike	Spike		Percen	t Recovery				QC			
Batch	Sample	Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier	Туре	Comments	
6010B-10120	2B	<u> </u>	-										_			
	39518	LEAD	19.8	144	148	120	mg/Kg	104	107	70-130	3.2	0-50		LFM		
GXS_101122																
	39947	BENZENE	ND	0.93		1	mg/Kg	93	NA	70-130	NA	0-60		LFM		
	39947	TOLUENE	ND	0.84		1	mg/Kg	84	NA	70-130	NA	0-60		LFM		
	39947	ETHYLBENZENE	ND	0.98		1	mg/Kg	98	NA	70-130	NA	0-60		LFM		
	39947	TOTAL XYLENES	ND	3.11		3	mg/Kg	104	NA	70-130	NA	0-60		LFM		1
	39947	dB-TOLUENE (Sum)	101	103			%		NA		NA			LFM		• ••



Page 1 of 1

Qualifier Definitions

Reference Number: 10-17665 Report Date: 12/06/10

Qualifier	Definition
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

FORM: QualifierDefs

							Page/_	_ of
212	nain of Cust	ody / Analysi		se complete all a				2203
*	- HORSELD TO THE WHOLEHAM BELLEVILLE TO THE COURT	Geol@onsultents			YU ITTED	For Lab Use Only Ref# 10-17 (65	CDC	
		Minateom Blvd Belliski.				Ref# (0~ (1) (668 Check Regulatory Program	ANALY TER	ALE:
10		i) St. WA Zp. 982 Noarger	29 IOW COMMAZ Later Pinne Season Library	HERE'S HELLER SERVICE TO THE SERVICE S	Zp:98238	Safe Drinking Water Ac	KE LABORATUR	
16-2010	THE PROPERTY OF THE PROPERTY O	955 FAX 734-7689	PO:	Altri		Glean Water/Act	Burlington, WA & 1.800.755.929	98233
1 3	gali y Joyce@dal	alinkyesicom	□Vise □M/C		e8 //	RCRA/ICEROLA	805 W. Orchard Dr.	
E.	2/4/100		Cardy			Olier	Bellingham, WA	
i:13a.	structions				Analys	ses Requested		•
	Use one line per samp E pecific in analysis		um Arcund Time Required				e	
	(NEW) List each meta Check off analyses to	al individually (NEW)	■Standard ■Halfilme (50% surchare	a)	ě i	50	E GO012	
	each sample Loaction Enter number of conta	1.	Quickes! (100% spiratege) Phon Emergency (Phone call Re	e Call Req	(<u>G</u>	遂 望。。。	3	
	Fleid ID	Location	Grab/ Sample B-1	Time		15-// D.X	Special Inst	tructions
Ī			Matrix"	新山东部建筑			Z Conditions	on Receipt
			MAS COIL 1/6/	THE RESERVE OF THE PROPERTY OF THE PROPERTY OF THE PARTY				
5								
			All Color of the Color					A) Q
							CCE	
						10-17	000	
	TIPLE BLOY	Rhone	*W-w	A Militaria Calumba Calcado Garago Con Palangua a maring a grande a constructiva	Em W - surface water	anthurstation and a	i oralicontaine DL - oil	IR .
	ample Receipt Reque	est (Must include FAX or	r i-mo ll) 1:0:1		SW - Surface water SW - Ground water		Other	
	alignuished by	Date	Time Received by		Date	Time Custody seals in	tact Yes	No NA
						Sample temp	C satisfactory	
689						Samples receive		
13604347689	RM: COC 01-06-2009					Chain of custody	y & labels agree	
136	10.0 200 01-00-2003				·			

ים או היים מבני מבנים מבנים מברי ימדה עבדים מבדים מבדים מבדים מבדים או היים או היים מבדים מברים מברים מברים מב מברים מדים מבדים מבנים מברים מבדים ימדים ימדים מבדים מבדים מבדים מבדים מבדים או היים מבדים מבדים מבדים מברים מ



Bellingham WA Microbiology

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 9150 SW Ploneer Ct Ste W-97070 360.755.9295 • 360.757.1400 360.671.0698 503.682.7602

Portland OR Microbiology/Chemistry

DEC n e sojo

December 6, 2010

Mr. Doug Dillenberger NW HydroGeo Consultants 1941 Lake Whatcom Blvd B3 #113 Bellingham, WA 98229

RE: 10-17665 - 2K1001

Dear Mr. Doug Dillenberger,

Your project: 2K1001, was received on Thursday November 18, 2010.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully Submitted,

Lawrence J Henderson, PhD Director of Laboratories Enclosures Data Report



Bellingham WA Microbiology

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

Portland OR Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17665

Project: 2K1001

Report Date: 11/29/10

Date Received: 11/18/10

Peer Review:

Sample Description: A - 2K1001

Lab Number: 39628

Date 11/29/10

Sample Date: 11/18/10 Collected By: Unknown

Aлalyzed By: НҮ

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	1		2	0.03	0.050	•	mg/Kg	8260B/5035A	GXS_101122	
TOLUENE	0.3	J	2	7.0	0.20	-	mg/Kg	8260B/5035A	GXS_101122	
ETHYLBENZENE	21.9		2	6.0	0.20	-	mg/Kg	8260B/5035A	GXS_101122	
TOTAL XYLENES	44.5		2	9.0	0.40	-	mg/Kg	8260B/5035A	GXS_101122	
GAS Range Organics	2650		2	100/30*	50	•	mg/Kg	8260B/5035A	GXS_101122	

Sample Description: B - SK1001

Lab Number: 39629

Date 11/29/10

Sample Date: 11/18/10

Collected By: Unknown

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
BENZENE	ND		1	0.03	0.025	•	mg/Kg	8260B/5035A	GX5_101122	<u> </u>	
TOLUENE	ND		1	7.0	0.10	-	mg/Kg	8260B/5035A	GXS_101122		
ETHYLBENZENE	ND		1	6.0	0.10	-	mg/Kg	8260B/5035A	GXS_101122		
TOTAL XYLENES	1.1		1	9.0	0.20	-	mg/Kg	8260B/5035A	GXS_101122		
GAS Range Organics	90.5		1	100/30*	25	-	ma/Ka	8260B/5035A	GXS 101122		

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter 173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001



Microbiology 805 Orchard Dr Ste 4 - 98225 Portland OR Microbiology/Chemistry

800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA

9150 SW Pioneer Ct Ste W- 97070

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17665

Project: 2K1001

Report Date: 11/29/10

Date Received: 11/18/10

Peer Review:

Sample Description: A - 2K1001

Lab Number: 39628

Date 11/23/10

Sample Date: 11/18/10

Collected By: Unknown Analyzed By: EM

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/35508	DXS_101123	Lab DUP: ND
HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/3550B	DXS_101123	Lab DUP: ND

Sample Description: B - SK1001

Lab Number: 39629

Date 11/23/10

Sample Date: 11/18/10 Collected By: Unknown

Analyzed By: EM

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
DIESEL (C12 - C24)	ND	-	1	2000	50	25	mg/Kg	NWTPH-0x/3550B	DXS_101123	
HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/3550B	DXS_101123	

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of practsion and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor

Closmup Lovel - Tho regulatory limit for Method A Cleanup Lovels (MTCA, Chapter173-340 WAC) contaminants in the specified metric. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organica (GRO) is 100 mg/Kg for gas mixtures without between and when the total ethylbenzane, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

9150 SW Pioneer Ct Ste W- 97070 503,682,7802

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17665

Project: 2K1001

Report Date: 12/6/10

Date Received: 11/18/10

Sample Date: 11/18/10 Collected By: Unknown

Reviewed by:

Sample Description: A - 2K1001

CAS ID#

E-10151

7439-92-1

Lab Number: 39628

MRL MDL Result **PQL**

0.1000

1.28

0.1000

1.28

62.0

6.32

Units DF

Method SM2540 G 60108/3051

11/22/10 12/2/10

Analyzed Analyst Batch Comment

6010B-101202B

Comment

Sample Description: B - 2K1001

LEAD

Lab Number: 39629

Parameter

TOTAL SOLIDS

Collected By: Unknown

Sample Date: 11/18/10

CAS ID#	ratafficiet	Result	PQL	MKL MUL	Units	Ur	Method	Analyzed	Analys	t Batch
E-10151	TOTAL SOLIDS	48.2	0.1000	0.1000	%	1,00	SM2540 G	11/22/10	SRF	TS_101122
7439-92-1	LEAD	19.0	1.96	1.96	mg/Kg	1.00	6010B/3051	12/2/10	ខ្ស	60108-1012028



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

800.755.9295 • 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225

9150 SW Pioneer Ct Ste W- 97070

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17665

Project: 2K1001

Report Date: 11/29/10 Date Received: 11/18/10

Peer Review:

Sample Description: A - 2K1001

Lab Number: 39628

Date 11/22/10

Sample Date: 11/18/10

Collected By: Unknown

Analyzed By: SRF

1					Cleanup						
I	Parameter	Result	Flag	DF	Level	PQL	MDL	Units	Method	Batch	Comment
	TOTAL SOLIDS	62.0		1		0.1000		%	SM2540 G	TS_101122	

Sample Description: B - SK1001

Lab Number: 39629

Date 11/22/10

Sample Date: 11/18/10 Collected By: Unknown

Analyzed By: SRF

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
TOTAL SOLIDS	48.2		1		0.1000		%	SM2540 G	TS_101122	-

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

up Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Bellingham WA Microbiology Portland OR Microbiology/Chemistry

1620 S Watnut St - 98233 800.755.9295 • 350.757,1400

805 Orchard Dr Ste 4 - 98225 360.671.0688

9150 SW Pioneer Cl Ste W- 97070 503.682.7802 Page 1 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 10-17665

			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	QualifierType*	Comment
6010B-101202B	LEAD	0.93	1	mg/L	6010B	93	70-130	LF8	
DXS_101123	DIESEL (C12 - C24)	129	125	mg/Kg	NWTPH-Dx	103	80-120	LF8	
_	O-TERPHENYL	103		%	NWTPH-Dx		70-130		
GXS_101122	BENZENE	1.0	1	mg/Kg	8260B	100	70-130	LFB	
_	dB-TOLUENE (Surr)	111		%	8260B				
	ETHYLBENZENE	1.1	1	mg/Kg	8260B	110	70-130		
	GAS Range Organics	202	250	mg/Kg	8260B	81	70-130		
	TOLUENE	1.1	1	mg/Kg	8260B	110	70-130		
	TOTAL XYLENES	2.9	3	mg/Kg	8260B	97	70-130		

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method enalytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB; Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Wainut St - 98233 805 Orchard Dr Sta 4 - 98225 609.755.9295 • 350.757.1400 350.671.0588

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 2 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 10-17665

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	QualifierType*	Comment
6010B-101202B	LEAD	ND		mg/L	6010B	0.0010) LRB	

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 9150 SW Pinneer Cl Sie W- 97070 360.671.0688 503.682.7602 1620 S Walnut St - 98233 800.755.9295 • 360.757.1400

Portland OR Microbiology/Chemistry

Page 3 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 10-17665

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	QualifierType*	Comment
6010B-101202B	LEAD	ND		mg/L	6010B	3.1200	мв	
					1			
DXS_101123	DIESEL (C12 - C24)	ND		mg/Kg	NWTPH-Dx	6.25000	D MB	
	HEAVIER OILS (>C24)	ND		mg/Kg	NWTPH-Dx	10.0000	OC .	
	O-TERPHENYL	105		%	NWTPH-Dx	0.0000)	
GXS_101122	BENZENE	ND		mg/Kg	8260B	0.06000) MB	TB 10-17665
	d8-TOLUENE (Surr)	106		%	8260B			TB 10-17665
	ETHYLBENZENE	ND		mg/Kg	8260B	0.06000)	TB 10-17665
	GAS Range Organics	ND		mg/Kg	8260B	5.0000)	TB 10-17665
	TOLUENE	ND		mg/Kg	8260B	0.06000)	TB 10-17665
	TOTAL XYLENES	ND		mg/Kg	8260B	.0.06000	ס	TB 10-17665

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walnut St - 98233 805 Orchard D 800.755.9295 - 360.757,1400 360.671.0688

Bellingham WA Microbiology 805 Orchard Dr Ste 4 - 98225

Portland OR Microbiology/Chemistry

9150 SW Pioneer Ct Sta W- 97070 503.582.7802

Page 4 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 10-17665

Report Date: 12/06/10

			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	/ Limits	QualifierType*	Comment
6010B-101202B	LEAD	0.98	1	mg/L	6010B	98	70-130	QCS	

*Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB; Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walnut St - 98233 805 Orchard D 800.755.9295 • 360.757 1400 360.671.0688

Bellingham WA

A Portland OR

Microbiology:Chemistry

805 Orchard Dr Ste 4 - 98225 9150 SW Ploneer Ct Ste W- 97070 360.671,0688 503.682,7802



Page 1 of 2

Reference Number: 10-17665

Report Date: 12/6/2010

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Duplicate

•				Duplicate			QC			
Batch	Sample	Analyte	Result	Result	Units	%RPD	Limits		Туре	Comments
6010B-10120	02B			-	-					
	39518	LEAD	19.8	22.2	mg/Kg	11.4	0-45		DUP	
DXS_101123	3									
	39628	O-TERPHENYL	91	85	%	6.8	0-50		DUP	
GXS_101122	2									
	39828	BENZENE	1	1	mg/Kg	0.0	0-50		DUP	
	39628	TOLUENE	0.3	0.4J	mg/Kg	28.6	0-50		DUP	
	39628	ETHYLBENZENE	21.9	20	mg/Kg	9.1	0-50		DUP	
	39628	TOTAL XYLENES	44.5	46.4	mg/Kg	4.2	0-50		DUP	
	39628	GAS Range Organics	2650	2470	mg/Kg	7.0	0-50		DUP	
	39628	d8-TOLUENE (Surr)	101	102	%	1.0			DUP	
TS_101122										
	39877	TOTAL SOLIDS	83.2	85.8	%	3.1	0-45		DUP	
	39947	TOTAL SOLIDS	66.4	66.0	%	0.6	0-45		DUP	



Page 2 of 2

Reference Number: 10-17665

Report Date: 12/6/2010

Matrix Spike

Matrix	k Spike			Duplical	e									
			Spike	Spike Spike Percent Recovery				t Recovery						
Batch	Sample Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier	Туре	Comments
6010B-10	1202B								•		•			
	39518 LEAD	19.8	144	148	120	mg/Kg	104	107	70-130	3.2	0-50		LFM	
GXS_101	122													
	39947 BENZENE	ND	0.93		1	mg/Kg	93	NA	70-130	NA	0-60		LFM	
	39947 TOLUENE	ND	0.84		1	mg/Kg	84	NA	70-130	NA	0-60		LFM	
	39947 ETHYLBENZENE	ND	0.98		1	mg/Kg	98	NA	70-130	NA	0-60		LFM	
	39947 TOTAL XYLENES	ND	3.11		3	mg/Kg	104	NA	70-130	NA	0-60		LFM	
	39947 d8-TOLUENE (Surr)	101	103			%		NA		NA			LFM	

ATA ATA CALAMA CELL CHE CHE CHE VER VER VER CHE CHE CHE CHE



1620 S Wahut S1-98233 805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer C1 Ste W- 97070 800.755.9295 • 360.757 1400 360.671.0688 9150 SW Pioneer C1 Ste W- 97070

Bellingham WA Microbiology

Microbialogy: Chemistry

Portland OR



Page 1 of 2

Reference Number: 10-17665

Report Date: 12/6/2010

SAMPLE DEPENDENT **QUALITY CONTROL REPORT**

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Duplicate

				Duplicate				QC		
Batch	Sample	Analyte	Result	Result	Units	%RPD	Limits	Qualifier	Туре	Comments
6010B-101202	В				· · · · · · · · · · · · · · · · · · ·					
	39518	LEAD	19.8	22,2	mg/Kg	11.4	0-45		DUP	
DXS_101123										
	39628	O-TERPHENYL	91	85	%	6.8	0-50		DUP	
GXS_101122										
	39628	BENZENE	1	1	mg/Kg	0.0	0-50		DUP	
	39628	TOLUENE	0.3	0.4J	mg/Kg	28.6	0-50		DUP	
	39628	ETHYLBENZENE	21.9	20	mg/Kg	9.1	0-50		DUP	
	39628	TOTAL XYLENES	44.5	46.4	mg/Kg	4.2	0-50		DUP	
		GAS Range Organics	2650	2470	mg/Kg	7.0	0-50		DUP	
	39628	d8-TOLUENE (Surr)	101	102	%	1.0			DUP	
TS_101122										
	39877	TOTAL SOLIDS	83.2	85.8	%	3.1	0-45		DUP	
	39947	TOTAL SOLIDS	66.4	66.0	%	0.6	0-45		DUP	



Page 2 of 2

Reference Number: 10-17665

Report Date: 12/6/2010

Matrix Spike

Duplicate QC Spike Spike Percent Recovery Batch Sample Analyte Result Result Result Conc Units MS MSD Limits %RPD Limits Qualifier Type Comments 6010B-101202B 39518 LEAD 19.8 107 70-130 0-50 LFM 144 148 120 104 3.2 mg/Kg GXS_101122 0-60 LFM ND NA 39947 BENZENE 0.93 1 mg/Kg 93 NA 70-130 LFM 39947 TOLUENE ND 0.84 mg/Kg 84 NA 70-130 NA 0-60 1 39947 ETHYLBENZENE ND 0.98 mg/Kg 98 NA 70-130 NA 0-60 LFM LFM 39947 TOTAL XYLENES ND 3.11 3 mg/Kg 104 NA 70-130 NA 0-60 NA LFM 39947 d8-TOLUENE (Surr) 101 103 % NA

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

NA = Indicates %RPD could not be calculated







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 10-17665

Report Date: 11/29/10

Lab No	Analyte	Result Qualifier	Units	Method	Limit
DXS_101123 39628	O-TERPHENYL	91	%	NWTPH-Dx	
GXS_101122 39628	d8-TOLUENE (Surr)	101	%	8260B	Acceptance Range: 50-150%
DXS_101123 39629	O-TERPHENYL	101	%	NWTPH-Dx	
GXS_101122 39629	d8-TOLUENE (Surr)	102	%	8260B	Acceptance Range: 50-150%

port	economic de la company de la c	ody / Analysi		UEST (Please complete		For Lab Use Only	12203
Cranto EVAN	idressi (1941) Leike	Whateom Blvd B3#44	G Addi	988 18700 MAIN STREET	Nei II	10-17665	EDGE
	n Bellingham Doug Diller	Si: WA zp. 98 Darger	PERCENTAGE PROPERTY.	(Am) WAY BL WA	A A A A A A A A A A A A A A A A A A A	ckRegulatoryiProgram SaleiDrinking Water,Adi	LABORATORIES 1620 S. Walnut St.
	3607/84-49	65 FAX: 784-7689	PO	A CONTRACTOR OF THE STATE OF TH		Clean WaterAct	Burlington, WA 98233 1.800.755.9295
hall black	A CONTRACTOR OF THE PARTY OF TH	allikwestcom	□ V Care			RORA//CEROLA Other	805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
:: :: :: :: ::::::::::::::::::::::::::	ıc <u>tions</u>				Analyses	Requested	
Use Be (NEI Che	e one line per sampl specific in enalysis	requests. I individually (NEW) De performed for	Standa Halcum Ouckes	d:Time:Required rot le (50%:Surgharge) rot(100%:surgharge); hiene Gall Req. ency (Phone Gall Req.);	WITHIGHT IN THE STATE OF THE ST		CO012203
	Field ID	Location	Grat Com				Special instructions Conditions on Receipt
	A						
			400				
HERM							
						10 1766	
						10-1766	
		Phone				10-1766	o Total Containers
HANDS.		Phone st (Must include FAX o	r Email)	*W - water DW - drinking water	SW - surface water	10-1766: 39628 - 39629 WW - waste water OL - oil S - soil Other_	上部的中的市场的10亿元在107711个17分钟中间
amp		The state of the s	r Email)	*W - water	SW - surface water	S - soil Other_ B Custody seals intact	Yes No N/
amp	ole Receipt Reque	st (Must include FAX o	-	* W - water DW - drinking water	SW - surface water GW - Ground water	S - soil Other_	Yes No N//

Soil Samples Collected on November 22, 2010
Sample Location C

Soil Samples Collected on November 29, 2010 Sample Locations D, E, F, G and H



Burlington WA

1620 S Walnut St - 98233 800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 360.671.0688 503.682.7802

RECEIVED

DEC 0 6 2010

December 6, 2010

Page 1 of 1

Mr. Doug Dillenberger NW HydroGeo Consultants 1941 Lake Whatcom Blvd B3 #113 Bellingham, WA 98229

RE: 10-17919 - Conway Feed 2K1001

Dear Mr. Doug Dillenberger,

Your project: Conway Feed 2K1001, was received on Monday November 29, 2010. All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully Submitted,

Lawrence J Henderson, PhD Director of Laboratories Enclosures Data Report



Burlington WA

Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard C 800.755.9295 • 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225

9150 SW Pioneer Ct Ste W- 97070

503,682,7802

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17919

Project: Conway Feed 2K1001

Report Date: 12/6/10

Date Received: 11/29/10

Reviewed by:

Sample Date: 11/29/10 2:20 pm Sample Description: Floor I - Pit (NE Cor) Collected By: Doug Dillenberger Lab Number: 40212 Analyzed Analyst Batch Comment DF Method PQL MDL Units Result CAS ID# Parameter 60108/3051 12/3/10 1.0 2.07 1.00 mg/Kg LEAD

7439-92-1

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be exhibited within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor



Burlington WA Corporate Office 1620 S Walnut St - 98233 Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

Portland OR Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17919

Project: Conway Feed 2K1001

Report Date: 12/2/10

Date Received: 11/29/10

Peer Review:

Sample Description: Floor I - Pit (NE Cor)

Lab Number: 40212

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
BENZENE	ND		1	0.03	0.025	0.0001	mg/Kg	8260B/5035A	GXS_101130		
TOLUENE	ND		1	7.0	0.10	0.00012	mg/Kg	8260B/5035A	GXS_101130		
ETHYLBENZENE	ND		1	6.0	0.10	0.00013	mg/Kg	8260B/5035A	GX3_101130		
TOTAL XYLENES	ND		1	9.0	0.20	0.0001	mg/Kg	8260B/5035A	GXS_101130		
GAS Range Organics	ND		1	100/30*	25	0.039	mg/Kg	8260B/5035A	GXS_101130		

Notation:

ND - A result of "ND" Indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor

Clearup Level - The regulatory limit for Method A Clearup Levels (MTCA, Chapter173-340 WAC) contaminents in the specified matrix. Amended Feb 12, 2001

Clearup Level - The regulatory limit for Method A Clearup Levels (MTCA, Chapter173-340 WAC) contaminents in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzeno and when the total ethylbenzane, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard D 800.755.9295 • 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225

9150 SW Pioneer Ct Ste W-97070 503.682.7802

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17919

Project: Conway Feed 2K1001

Report Date: 12/6/10

Date Received: 11/29/10

Peer Review:

Sample Description: Floor I - Pit (NE Cor)

Lab Number: 40212

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/35508	DXS_101130		
HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/35508	DXS_101130		

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 1620 S Walnut St - 98233 805 Orchard D 800.755.9295 = 360.757.1400 360.671.0688

Portland OR Microbialogy/Chemistry

9150 SW Pioneer Ct Sta W- 97070 503.682.7802

Page 1 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 10-17919

Report Date: 12/06/10

_	- Contract								
			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recove	ery Limits	Qualifier Type*	Comment
6010B-101203B	LEAD	0.93	1	mg/L	6010B	93	70-130	LFB	
DXS_101130	DIESEL (C12 - C24)	115	125	mg/Kg	NWTPH-Dx	92	80-120	LFB	
BX0_101100	O-TERPHENYL	111		%	NWTPH-Dx		70-130		
GXS_101130	BENZENE	0.99	1	mg/Kg	8260B	99	70-130	LFB	
	d8-TOLUENE (Surr)	106		%	8260B				
	ETHYLBENZENE	0.96	1	mg/Kg	8260B	96	70-130		
	GAS Range Organics	277	250	mg/Kg	8260B	111	70-130		
	TOLUENE	0.93	1	mg/Kg	8260B	93	70-130		
	TOTAL XYLENES	2.69	3	mg/Kg	8260B	90	70-130		

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

9150 SW Pioneer Ct Ste W- 97070

Page 2 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 10-17919

Report Date: 12/06/10

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	QualifierType*	Comment
60109-101203B	IFAD	ND		mg/L	6010B	0.00100	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB; Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walnut St - 98233 800.755.9295 • 360.757.1400

Bellingham WA Microbiology

360.671.0688

805 Orchard Dr Ste 4 - 98225

Portland OR Microbialogy/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 3 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 10-17919

Report Date: 12/06/10

	- And Control of the							
			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment
6010B-101203B	LEAD	ND		mg/L	6010B	3.12000	МВ	
DXS_101130	DIESEL (C12 - C24)	ND		mg/Kg	NWTPH-Dx	6.25000	МВ	
	HEAVIER OILS (>C24)	ND		mg/Kg	NWTPH-Dx	10.0000	C	
	O-TERPHENYL	96		%	NWTPH-Dx	0.00000	•	
GXS_101130	BENZENE	ND		mg/Kg	8260B	0.06000) MB	TB 10-17908
5 ,10_101	d8-TOLUENE (Surr)	103		%	8260B			TB 10-17908
	ETHYLBENZENE	ND		mg/Kg	8260B	0.06000)	TB 10-17908
	GAS Range Organics	ND		mg/Kg	8260B	5.00000)	TB 10-17908
	TOLUENE	ND		mg/Kg	8260B	0.06000)	TB 10-17908
	TOTAL XYLENES	ND		mg/Kg	8260B	0.06000)	TB 10-17908

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.



Burlington WA

Bellingham WA

Portland OR Microbiology/Chemistry

1620 S Walmut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

9150 SW Pioneer Ct Ste W- 97070 503,682,7802 Page 4 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 10-17919

Report Date: 12/06/10

	*** 1 Trigation		True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	QualifierType*	Comment
6010B-101203B	LEAD	0.97	1	mg/L	6010B	97	70-130	QCS	
GXS_101130	BENZENE	10.9	10.6	mg/Kg %	8260B 8260B	103	70-130	qcs	
	d8-TOLUENE (Surr) ETHYLBENZENE	94 6.9	7.1	mg/Kg	8260B	97	70-130		
	GAS Range Organics TOLUENE	541 33.1	398 35.2	mg/Kg mg/Kg	8260B 8260B	136 94	70-130 70-130		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walnut St - 98233 805 Orchard D 800.755.9295 • 360.757 1400 360.671.0688

Bellingham WA

805 Orchard Dr Ste 4 - 98225 360.671.0688

Portland OR
Microbiology/Chemistry

9150 SW Pioneer C1 Ste W- 97070 503.682.7802



Page 1 of 2

Reference Number: 10-17919

Report Date: 12/6/2010

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Duplicate

				Duplicate				QC		
Batch	Sample	Analyle	Result	Result	Units	%RPD	Limits	Qualifier	Турв	Comments
6010B-10120	03B									
	40338	LEAD	8.28	7.99	mg/Kg	3.6	0-45		DUP	
DXS_101130	0									•
	39878	DIESEL (C12 - C24)	60400	58200	mg/Kg	3.7	0-50		DUP	
	39878	O-TERPHENYL	65	127	%	64.6	0-50		DUP	
GXS_101130	0									
	38211	BENZENE	26.1	26.5	ug/Kg	1.5	0-50		DUP	
	38211	TOLUENE	87.2	83.1E	ug/Kg	4.8	0-50		DUP	
	38211	ETHYLBENZENE	16.7	16.6	ug/Kg	0.6	0-50		DUP	
	38211	TOTAL XYLENES	90.4	87.3	ug/Kg	3.5	0-50		DUP	
	38211	GAS Range Organics	1120	1390	ug/Kg	21.5	0-50		DUP	
	38211	d8-TOLUENE (Surr)	102	102	%	0.0			DUP	
ts_101130										
	40338	TOTAL SOLIDS FOR CALCULATION	76.09	76.34	%	0.3	0-45		DUP	



Page 2 of 2

Reference Number: 10-17919

Report Date: 12/6/2010

Matrix Spike

Matrix	: Spike			Duplicat	е									
			Spike	Spike	Spike		Percer	t Recovery				QC		
Batch	Sample Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier	Type Commo	ents
6010B-10	1203B	<u></u>												i
	40338 LEAD	8.28	110	115	98.8	mg/Kg	103	108	70-130	4.8	0-50		LFM	
GXS_101	130													
_	40191 BENZENE	ND	0.99		1	mg/Kg	99	NA	70-130	NA	0-60		LFM	
	40191 TOLUENE	ND	0.92		1	mg/Kg	92	NA	70-130	NA	0-60		LFM	
	40191 ETHYLBENZENE	ND	0.76		1	mg/Kg	76	NA	70-130	NA	0-60		LFM	
	40191 TOTAL XYLENES	ND	2.74		3	mg/Kg	91	NA	70-130	NA	0-60		LFM	
	40191 d8-TOLUENE (Surr)	95	106			%		NA		NA			LFM	







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 10-17919

Report Date: 12/06/10

					ı
Lab No	Analyte	Result Qualifier	Units	Method	Limit
DXS_101130 40212	O-TERPHENYL	104	%	NWTPH-Dx	
GXS_101130 40212	d8-TOLUENE (Surr)	103	%	8260B	Acceptance Range: 50-150%

CHAIN OF CUSTODY / ANAL'	YSIS REQUEST (PLEASE COMPLETE ALL A	APPLICABLE SHADED SECTIONS)	PAGEOF									
REPORT TO: NW HUDROGED COMSULTANTS	BILTO: General Mamager Conway FEED	FOR LAB USE ONLY	ENCE									
ADDRESS: 1941 LY WHAT COM BLVD . B-3113	ADDRESS: 18 700 WAIN STREET	REF# 10-17919	À NÀ LYTICA L LADORATORIES									
CITY: BELLINGHAM STATE: WA 98229	CITY: COMMAN STATE: WA ZIP: 98238	CHECK REGULATORY PROGRAM Corporate										
ATTN: DOWN DILLENGERGER	PHONE: 360.445-5211 FAX:	SAFE DRINKING WATER ACT	1620 South Walnut St. Burlington, WA 98233									
PHONE 784-4955 FAX 734-7689	P.O.# ATTN:	CLEAN WATER ACT	1.800.755.9295									
EMAR: joyce@datalinkwest.com	□VISA □ M/C □ A/E EXPIRES /	RCRA / CERCLA	Microbiology 805 W. Orchard Dr. Suite 4									
PROJECT NAME: CONWAY FEED 2K1001	CARD#	OTHER	Bellingham, WA 98225									
1. USE ONE LINE PER SAMPLE LOCATION. 2. BE SPECIFIC IN TEST REQUESTS. 3. NEW LIST EACH METAL INDIVIDUALLY. NEW 4. CHECK OFF ANALYSIS TO BE PERFORMED CONTROL OF CON	AROUND TIME REQUIRED STANDARD HALF-TIME (50% SURCHARGE) QUICKEST (100% SURCHARGE) PHONE CALL REQ. EMERGENCY (PHONE CALL REQUIRED) GRAB! SAMPLE MATRIX* DATE TIME	TS/DX numpH-地田/DX pb	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT									
SAMPLE ID LOCATION	GRABI SAMPLE DATE TIME SO	25 mun 29 9	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT									
1 Flags I PIT (NE cos) 2 3 4 5 6 7 8 9	Soll 1/39-1/2 2:30	7919 100c	Same analysis Same analysis as prev. Jobs 11(15) Chent would be to									
SAMPLED BY: DOUG PILLENBERGER F	HONE: 734-4955 FAX:734-7689 E	MAIL: iouce@datalinkwest	Com TOTAL CONTAINERS									
SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMA		WASTE WATER OL-OIL	entel. HH									
	Yes No N/A											
RELINQUISHED BY DATE	70:											
Jung 11 194	(449	SAMPLES RECEIVED	OC SATISFACTORY									
	11/2	CHAIN OF CUSTODY	& LABELS AGREE									

FORM COC 01-06-2009



NW HydroGeo Consultants

Burlington WA 1620 S Walnut St - 98233

Conversity Office 800.755.9295 • 360.757.1400 • 360.757.14021ex
Bellingham WA 605 Orchard Dr Suite 4 • 98225 360.671.0688 • 360.671.1577fax

November 29, 2010

Page 1 of 1

Sample Receipt

FAX Number: 360-734-7689

Mr. Doug Dillenberger

Dear Scott,

Mr. Scott McKnight

18700 Main Street

Conway, WA 98038

We received the following samples for project "Conway Feed 2K1001" on 11/29/2010 at 2:50 pm. This project is expected to be completed by December 06, 2010. The temperature of the sample cooler was 7.5C. If you have any questions concerning this project please refer to reference number 10-17919.

LAB NUMBER	CLIENT SAMPLE ID#	Date Sampled	Sampled By	Status	COMMENTS
40212	Floor I/Pit (NE Cor)	11/29/10 2:20 r	Doug Dillenberger	Pending	

ADDITIONAL COMMENTS:

CHAIN OF CUSTODY / ANAL'	YSIS REQUEST (PLEASE CO	WPLETE ALL APPLICABLE SI	HADED SECTIONS)	PAGE_ / OF _ /						
REPORT TO: MW HUDROGEO COMSULTANTS	BILL TO: General Manager Conway		AB USE ONLY	<u>Char</u>						
ADDRESS: 1941 LY WHAT COM BLVD . B-3113	ADDRESS: 8 700 WAIN STREET	REF#	-17908	ANALYTICAL LABORATORIES						
CITY: BELLINGHAM STATE: WA 98229	CITY: COMUNIAN STATE: WA ZIP	10×20 -	ULATORY PROGRAM	<u>Corporate</u>						
ATTN: DING DILLENBERGER	PHONE: 3/60.445-5211 FAX:		RINKING WATER ACT	1620 South Walnut St. Burlington, WA 98233						
PHONE 134-4955 FAX 134-7689	P.O.# ATTN:		WATER ACT	1.800.755.9295						
EMALL inuse & data Linkwest . non.	□ VISA □ M/C □ A/E EXPIRE		/ CERCLA	Microbiology 805 W. Orchard Dr. Suite 4						
PROJECT NAME: COMMAY FEED 2K1001	CARD#	OTHER		Bellingham, WA 98225						
		Analysis Ri	EQUESTED							
2. BE SPECIFIC IN TEST REQUESTS. 3. NEW LIST EACH METAL INDIVIDUALLY. NEW 4. CHECK OFF ANALYSIS TO BE PERFORMED	ROUND TIME REQUIRED STANDARD HALF-TIME (50% SURCHARGE) QUICKEST (100% SURCHARGE) PHONE CALL REQ. EMERGENCY (PHONE CALL REQUIRED)	NUMPHYG-BIEX TS/DX NUMPH-HEMB/DX		RECEIVED SNOV 3 0 2010 Special instructions/						
SAMPLE ID LOCATION	GRABI SAMPLE* DATE TIME S	75 Team	8	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT						
1 D WEST Floor	W SOIL 10/29 12:00 [
2 E EAST BI Flour	V Soil 10/29 12:30									
3 F East Wall	V SOIL 10/29 12:35									
4 G NW wall	V SOIL 10/29 1:00									
5 H NW Floor	V Soil 10/29 1:00			L						
6										
7		ᅥᅵ片ᅵ片		47008						
8		릭ㅣ片ㅣ片ㅣ늗	╡┊ ╎╎ 10 ;	.1/900						
9										
SAMPLED BY: DOUG DILLENBERGER F	100 734 -4955 FAX:734-71	SO EMAIL: IMAGE	@datalinkwest	- COM. ■TOTAL CONTAINERS						
DILLY III DAY III		, J J J	L- oil							
SAMPLE RECEIPT REQUESTED (MUST INCLUDE PAX OR EMA	SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) W-WATER SW-SURFACE WATER W-WASTE WATER OL-OIL OTHER YES NO N/A									
RELINQUISHED BY DATE	TIME RECEIVED BY	DATE TIME	CUSTODY SEALS INT	ract.						
1) (14/1 1 11-20	9140 2/1/	1/29/10/1345	SAMPLE TEMP	C SATISFACTORY						
lange dink	Q1.47	- 11,0	SAMPLES RECEIVED	INTACT						
			CHAIN OF CUSTODY	& LABELS AGREE						

FORM: COC,01-06-2009



Burlington WA 1620 S Walnut St - 98233

800.755.9295 • 360 757 1400 • 360 757 1402tax

Bellingham WA 805 Orchard Dr Suite 4 98225 360.671.0688 • 360.671.1577tax November 29, 2010

Page 1 of 1

Sample Receipt

Mr. Scott McKnight **NW HydroGeo Consultants** 18700 Main Street

FAX Number: 360-734-7689

Mr. Doug Dillenberger

Dear Scott,

Conway, WA 98038

We received the following samples for project "Conway Feed 2K1001" on 11/29/2010 at 1:45 pm. This project is expected to be completed by December 06, 2010. The temperature of the sample cooler was 8.1C. If you have any questions concerning this project please refer to reference number 10-17908.

LAB NUMBER	CLIENT SAMPLE ID#	Date Sampled	Sampled By	Status	COMMENTS
40191	D/West Floor	11/29/10 12:00	Doug Dillenberger	Pending	
40192	E/East Floor	11/29/10 12:30	Doug Dillenberger	Pending	
40193	F/East Wall	11/29/10 12:35	Doug Dillenberger	Pending	
40194	G/NW Well	11/29/10 1:00 p	Doug Dillenberger	Pending	
40195	H/NW Floor	11/29/10 1:00 p	Doug Dillenberger	Pending	

ADDITIONAL COMMENTS:

CHAIN OF CUSTODY / ANAI	YSIS F	REQUEST (PLEA	SE COMPLETE ALL	APPLICABLE S	HADED SECTION	vs)	PAGE/_ OF _/
REPORT TO: MW HUDROGED COMSULTANTS	BILL TO: GE	MCKNIGHT eneral mamager Con	way feed	FOR	AB USE ONLY		CDCC
ADDRESS: 1941 LE WHAT COM BLVD . B-3113		8 700 MAIN STREET		REF# !(7)	17919		ANALYTICAL
CITY: BELLINGHAM STATE: WA 98229	CITY: CO		RAM	Corporate			
ATTN: DOWG DILLENBERGER	PHONE: 3	60.445-5211 FAX:	Аст	1620 South Walnut St. Burlington, WA 98233			
PHONE 734-4955 FAX 734-7689	P.O.#:	1 0. c M					1.800.755.9295
EMAIL: jouce@ datalinkwest. com	□ VISA	□ M/C □ A/E		Microbiology 305 W. Orchard Dr. Suite 4			
PROJECT NAME: CONWAY FEED 2K1001	CARD#			Bellingham, WA 98225			
				ANALYSIS R	EQUESTED		-
STRUCTIONS	AROUND TIME	E REQUIRED	×	ă			RECEIVED
USE ONE LINE PER SAMPLE LOCATION. BE SPECIFIC IN TEST REQUESTS.	STANDARD		BIEX				NOV 3 0 2010
NEW LIST EACH METAL INDIVIDUALLY. NEW CHECK OFF ANALYSIS TO BE PERFORMED		50% SURCHARGE) 00% Surcharge) phone call rec		- A			0 1404 2 0 5010
FOR EACH SAMPLE LOCATION. 5. ENTER NUMBER OF CONTAINERS.		(PHONE CALL REQUIRED)		XQ,			# B
	GRABI	SAMPLE * DATE TIME	5035 SOIL	TS/DX	ad		SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
SAMPLE ID LOCATION	COMP.	MATRIX"				$\neg + \neg$	2 CONDITIONS ON RECEIPT
1 Floor I PIT (NE CO)	ļi	Soil 11/29-10 2:				$H \mid H$	
2						H H	Canada
3			1		H		Same analys
4	-				Ħ l	HIH	1065
5			□ 10-1	7919			11/15
6			1 . 4	0212			
. 8							
9							Chent wanted Yoth
10							per conversation un
SAMPLED BY: DOUG DILLENBERGER	360 731	4-4955 FAX:73	4-7689	EMAIL: jouce	@datalink	west-com	TOTAL CONTAINERS receiving 151 batch
SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR E	MAIL) #)L-OIL		endel. HH
		DW-DRINKING WATER GW-	GROUND WATER S-8		THER	•	YES NO N/A
RELINQUISHED BY DATE	TIME	RECEIVED BY	D.	ATE TIME	CUSTODY SE		
Jan 11/1 1/20	1/449				1		TISFACTORY 📗 🔲
and the same	110			,	SAMPLES RE	CEIVED INTACT	
1		761	- 111	2010 1450	CHAIN OF CU	ISTODY & LABE	ELS AGREE
FORM COC 01-06-2009		1			-		



1620 S Walmut St - 98233 805 Orchard Dr Ste 4 - 98225 9150 SW Ploneer Ct Ste W- 97070 800 755 9295 • 360.757.1400 360.671.0688 9150 SW Ploneer Ct Ste W- 97070 903.682.7802

Bellingham WA Microbiology

Portland OR Microbialogy/Chemistry

RECEIVED

DEC U 6 2010

Page 1 of 1

December 6, 2010

Mr. Doug Dillenberger NW HydroGeo Consultants 1941 Lake Whatcom Blvd B3 #113 Bellingham, WA 98229

RE: 10-17908 - Conway Feed 2K1001

Dear Mr. Doug Dillenberger,

Your project: Conway Feed 2K1001, was received on Monday November 29, 2010. All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA

If you have questions phone us at 800 755-9295.

Respectfully Submitted,

reports.

Lawrence J Henderson, PhD Director of Laboratories Enclosures Data Report



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 800.755.9295 • 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225

9150 SW Proneer Ct Sta W- 97070

Page 1 of 2

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17908

Project: Conway Feed 2K1001

Report Date: 12/2/10

Date Received: 11/29/10

Peer Review:

Sample Description: D - West Floor

Lab Number: 40191

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Cleanup Comment Method **Batch** MDL Units Level POL Result Flag DF Parameter 82608/50308 GXS_101130 mg/Kg ND 0.03 0.025 0.01 BENZENE 8260B/5030B GXS_101130 mg/Kg ND 7.0 0.10 0.01 TOLUENE 8260B/5030B GXS_101130 0.01 mg/Kg ND 6.0 0.10 ETHYLBENZENE mg/Kg 8260B/5030B GXS_101130 ND 9.0 0.20 0.01 **TOTAL XYLENES** 1 8260B/5035A GXS_101130 ND 100/30* 25 0.039 **GAS Range Organics**

Sample Description: E - East Floor

Lab Number: 40192

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

				Cleanup						
Parameter	Result	Flag	DF	Levei	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND	_	1	0.03	0.025	0.0001	mg/Kg	8260B/5035A	GXS_101130	
TOLUENE	ND		1	7.0	0.10	0.00012	mg/Kg	82608/5035A	GXS_101130	
ETHYLBENZENE	ND		1	6.0	0.10	0.00013	mg/Kg	8260B/5035A	GXS_101130	
TOTAL XYLENES	ND		1	9.0	0,20	0.0001	mg/Kg	8260B/5035A	GX3_101130	
GAS Range Organics	ND		1	100/30*	25	0.039	mg/Kg	8260B/5035A	GXS_101130	

Sample Description: F - East Wall

Lab Number: 40193

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.03	0.025	0.0001	mg/Kg	8260B/5035A	GXS_101130	
TOLUENE	ND		1	7.0	0.10	0.00012	mg/Kg	8260B/5035A	GXS_101130	
ETHYLBENZENE	ND		1	6.0	0.10	0.00013	mg/Kg	8260B/5035A	GXS_101130	
TOTAL XYLENES	ND		1	9.0	0.20	0.0001	mg/Kg	8260B/5035A	GXS_101130	
GAS Range Organics	ND		1	100/30*	25	0.039	mg/Kg	8260B/5035A	GXS_101130	

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

tory limit for Method A Cleanup Levels (MTCA, Chapter 173-340 WAC) contaminents in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Page 2 of 2

Reference Number: 10-17908 Report Date: 12/2/10

Hydrocarbon Data Report

Sample Description: G - NW Well

Lab Number: 40194

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Duit 11123	••				_						
Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
BENZENE	ND		1	0.03	0.025	0.0001	mg/Kg	8260B/5035A	GXS_101130		
TOLUENE	ND		1	7.0	0.10	0.00012	mg/Kg	8260B/5035A	GXS_101130		•
ETHYLBENZENE	ND		1	6.0	0.10	0.00013	mg/Kg	8260B/5035A	GXS_101130		
TOTAL XYLENES	ND		1	9.0	0.20	0.0001	mg/Kg	8260B/5035A	GXS_101130		
GAS Range Organics	ND		1	100/30°	25	0.039	mg/Kg	82608/5035A	GXS_101130		

Units

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

8260B/5035A

R260R/5035A

Cleanup

PQL

0.025

0.10

MDL

0.0001

0.00012

0.00013

0.0001

0.039

Level

0.03

7.0

6.0

100/30*

Flag

DF

Result

ND

ND

ND

ND

ND

Sample Description: H - NW Floor

Lab Number: 40195

Parameter

BENZENE

TOLUENE

ETHYLBENZENE

TOTAL XYLENES

GAS Range Organics

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

GXS_101130

GXS_101130

Batch Comment Method 8260B/5035A GXCS_101130 GXS_101130 8260B/5035A 8260B/5035A GXS_101130

ND - A result of 'ND' indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.

PQL = Practical Quantitation Limit is the lowest level that can be echieved within specified limits of precision and accuracy during routino taboratory operating conditions.

D.F. - Dilution Factor

Clearup Level - The regulatory limit for Method A Clearup Levels (MTCA, Chapterl 73-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gazoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 800.755.9295 • 360.757.1400 360.671.0888

805 Orchard Dr Ste 4 - 98225

9150 SW Pioneer Ct Sta W- 97070

Page 1 of 2

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Beilingham, WA 98229

Reference Number: 10-17908

Project: Conway Feed 2K1001

Report Date: 12/6/10 Date Received: 11/29/10

Peer Review:

Sample Description: D - West Floor

Lab Number: 40191

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

Bto-	Result I	Flag DF	Cleanup	PQL	MDL	Units	Method	Batch	Comment
Parameter	Result	riag Di							
DIESEL (C12 - C24)	ND	1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130	
HEAVIER OILS (>C24)	ND	1	2000	50	40	mg/Kg	NWTPH-Dx/3550B	DXS_101130	

Sample Description: E - East Floor

Lab Number: 40192

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

	Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
1	DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130		
	HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/35508	DXS_101130		

Sample Description: F - East Wall

Lab Number: 40193

40/4/40

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

Date 121/10											
Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130		
HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/35508	DXS_101130		

Sample Description: G - NW Well

Lab Number: 40194

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

ı												
	Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL.	Units	Method	Batch	Comment	
ı	DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130		
	HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/3550B	DXS_101130		

ND - A result of "ND" indicates that the compound was not detected above the Lob's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Busines record Clearup Lovel - The regulatory limit for Method A Clearup Levels (MTCA, Chapter173-340 WAC) contaminents in the specified matrix. Amended Feb 12, 2001 The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/kg for gas mixtures without benzene and when the total athylbenzane, toluene and xylones are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Page 2 of 2

Reference Number: 10-17908

Report Date: 12/6/10

Hydrocarbon Data Report

Sample Description: H - NW Floor

Lab Number: 40195

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130		
HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/35508	DXS_101130		

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Mothod Reporting Limit - MRL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - District Factor

Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Bellingham WA

Portland OR Microbiology/Chemistry

1620 S Watnut St - 98233 800.755.9295 • 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225

9150 SW Planeer Ct Sta W- 97070

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17908

Project: Conway Feed 2K1001

Report Date: 12/6/10

Date Received: 11/29/10

Reviewed by:

Sample Date: 11/29/10 Sample Description: D - West Floor

Collected By: Doug Dillenberger Lab Number: 40191

Analyzed Analyst Batch Comment DE Method PQL MRL MDL Units **Parameter** Result CAS ID# 60108-1012038 6010B/3051 12/3/10 3.77 1.12 1.12 1.00

Sample Date: 11/29/10 Sample Description: E - East Floor

Collected By: Doug Dillenberger Lab Number: 40192

Comment Analyzed Analyst Batch MRI. MDL Units DF Method Result POL Parameter CAS ID# 60108/3051 1.19 7439-92-1 LEAD 3.14 1.19 marka 1.00

Sample Date: 11/29/10 Sample Description: F - East Wall

Collected By: Doug Dillenberger Lab Number: 40193

Analyzed Analyst Batch Comment MDL DF Method CAS ID# Parameter Result PQL MRL Units 6010R-101203B

4.96 1.11 1.11 mg/Kg 6010B/3051 12/3/10 ы LEAD 7439-92-1

Sample Date: 11/29/10 Sample Description: G - NW Well

Collected By: Doug Dillenberger Lab Number: 40194

PQL MRL MDL Units DF Method Analyzed Analyst Batch Comment Result CAS ID# Parameter 5.32 6010B/3051 12/3/10 1.22 1.22 1.00 7439-92-1 LEAD ma/Ka

Sample Date: 11/29/10 Sample Description: H - NW Floor

Collected By: Doug Dillenberger Lab Number: 40195

PQL MRL MDL Units DF Method Analyzed Analyst Batch Comment Result CAS ID# Parameter

6010B/3051 5.83 1.22 1.22 1.00 7439-92-1 LEAD

7439-92-1

LEAD

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

n Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.



Bellingham WA Microbiology

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

Portland OR Microbialogy/Chemistry

9150 SW Pioneer Ct Ste W- 97070

Page 1 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 10-17908

Report Date: 12/06/10

			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
6010B-101203B	LEAD	0.93	1	mg/L	6010B	93	70-130	LFB	
DXS 101130	DIESEL (C12 - C24)	115	125	mg/Kg	NWTPH-Dx	92	80-120	LFB	
-	O-TERPHENYL	111		%	NWTPH-Dx		70-130		
GXS_101130	BENZENE	0.99	1	mg/Kg	8260B	99	70-130	LFB	
_	d8-TOLUENE (Sum)	106		%	8260B				
	ETHYLBENZENE	0.96	1	mg/Kg	8260B	96	70-130		
	GAS Range Organics	277	250	mg/Kg	8260B	111	70-130		
	TOLUENE	0.93	1	mg/Kg	8260B	93	70-130		
	TOTAL XYLENES	2.69	3	mg/Kg	8260B	90	70-130		

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233

805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

9150 SW Pioneer Ct Ste W- 97070

503,682,7802

6010B

Page 2 of 4



6010B-101203B LEAD

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

mg/L

Reference Number: 10-17908

LRB

0.00100

Report Date: 12/06/10

Comment

QC True Recovery Limits QualifierType* Result Value Units Method Batch Analyte

ND

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology Portland OR Microbiology/Chemistry

1620 S Wathut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

9150 SW Pioneer Cl Ste W- 97070 503.682.7602 Page 3 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 10-17908

Report Date: 12/06/10

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment
6010B-101203B	LEAD	ND		mg/L	6010B	3.12000) MB	
DXS 101130	DIESEL (C12 - C24)	ND		mg/Kg	NWTPH-Dx	6.25000) MB	
	HEAVIER OILS (>C24)	ND		mg/Kg	NWTPH-Dx	10.0000	oc	
	O-TERPHENYL	96		%	NWTPH-Dx	0.0000)	
GXS_101130	BENZENE	ND		mg/Kg	8260B	0.06000) MB	TB 10-17908
	d8-TOLUENE (Surr)	103		%	8260B			TB 10-17908
	ETHYLBENZENE	ND		mg/Kg	8260B	0.06000)	TB 10-17908
	GAS Range Organics	ND	,	mg/Kg	8260B	5,00000)	TB 10-17908
	TOLUENE	ND		mg/Kg	8260B	0.06000)	TB 10-17908
	TOTAL XYLENES	ND		mg/Kg	8260B	0.06000)	TB 10-17908

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0568

Portland OR Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682.7602

Page 4 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 10-17908

Report Date: 12/06/10

	-,		True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits		Qualifier Type*	Comment
6010B-101203B	LEAD	0.97	1	mg/L	6010B	97	70-130	QCS	
GXS 101130	BENZENE	10.9	10.6	mg/Kg	8260B	103	70-130	QCS	
_	d8-TOLUENE (Surr)	94		%	8260B				
	ETHYLBENZENE	6.9	7.1	mg/Kg	8260B	97	70-130		
	GAS Range Organics	541	398	mg/Kg	8260B	136	70-130		
	TOLUENE	33.1	35.2	mg/Kg	8260B	94	70-130		

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an allquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walnut St - 98233 800.755.9295 • 360.757 1400

Bellingham WA

Portland OR
Microbiology/Chemistry



Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 10-17908 Report Date: 12/6/2010

Duplicat	e									
				Duplicate				QC		
Batch	Sample	Analyte	Result	Result	Units	%RPD	Limits	Qualifier	Туре	Comments
6010B-101203	BB									
	40338	LEAD	8.28	7.99	mg/Kg	3.6	0-45		DUP	
DXS_101130										
	39878	DIESEL (C12 - C24)	60400	58200	mg/Kg	3.7	0-50		DUP	
	39878	O-TERPHENYL	65	127	%	64.6	0-50		DUP	
GXS_101130										
	38211	BENZENE	26.1	26.5	ug/Kg	1.5	0-50		DUP	
	38211	TOLUENE	87.2	83.1E	ug/Kg	4.8	0-50		DUP	
	38211	ETHYLBENZENE	16.7	16.6	ug/Kg	0.6	0-50		DUP	
	38211	TOTAL XYLENES	90.4	87.3	ug/Kg	3.5	0-50		DUP	
	38211	GAS Range Organics	1120	1390	ug/Kg	21.5	0-50		DUP	
	38211	d8-TOLUENE (Surr)	102	102	%	0.0			DUP	
ts_101130										
-	40338	TOTAL SOLIDS FOR CALCULATION	76.09	76.34	%	0.3	0-45		DUP	



Page 2 of 2

Reference Number: 10-17908

Report Date: 12/6/2010

Matrix Spike

Matrix	Spike				Duplicat	e										
		Spike Spike Spike <u>Percent Recovery</u>					QC									
Batch	Sample	Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier	Туре	Comments	_
6010B-1012	:03B					•						-				
	40338	LEAD	8.28	110	115	98.8	mg/Kg	103	108	70-130	4.8	0-50		LFM		
GXS_10113	0															
	40191	BENZENE	ND	0.99		1	mg/Kg	99	NA	70-130	NA	0-60		LFM		
	40191	TOLUENE	ND	0.92		1	mg/Kg	92	NA	70-130	NA	0-60		LFM		
	40191	ETHYLBENZENE	ND	0.76		1	mg/Kg	76	NA	70-130	NA	0-60		LFM		
	40191	TOTAL XYLENES	ND	2.74		3	mg/Kg	91	NA	70-130	NA	0-60		LFM		
	40191	d8-TOLUENE (Surr)	95	106			%		NA		NA			LFM		







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 10-17908 Report Date: 12/06/10

		- " o "	11-4-	1 4-4b d	
Lab No	Analyte	Result Qualifier	Units	Method	<u>Limit</u>
DXS_101130 40191	O-TERPHENYL	90	%	NWTPH-Dx	
GXS_101130 40191	dB-TOLUENE (Surr)	95	%	8260B	Acceptance Range: 50-150%
DXS_101130 40192	O-TERPHENYL	88	%	NWTPH-Dx	
GXS_101130 40192	d8-TOLUENE (Surr)	97	%	8260B	Acceptance Range: 50-150%
DXS_101130 40193	O-TERPHENYL	103	%	NWTPH-Dx	
GXS_101130 40193	d8-TOLUENE (Surr)	99	%	8260B	Acceptance Range: 50-150%
DXS_101130 40194	O-TERPHENYL	92	%	NWTPH-Dx	
GXS_101130 40194	d8-TOLUENE (Surr)	107	%	8260B	Acceptance Range: 50-150%
DXS_101130 40195	O-TERPHENYL	101	%	NWTPH-Dx	
GXS_101130 40195	d8-TOLUENE (Surr)	96	%	8260B	Acceptance Range: 50-150%

CHAIN OF CU	JSTODY / ANAL			COMPLETE A	LL APPLICABLE S	SHADED SECTIONS)	PAGE/_O	F_/_					
REPORT TO: NW HUDRO	GEO COMSULTANTS	BILL TO: General M	HT Conu	YAY FEED	For	LAB USE ONLY							
ADDRESS: 1941 LX WH	arcom BLVD · B-3113	ADDRESS: 18 700 W			REF#	-17908	ANALYTI	ČAI.					
	STATE: WA 98229	CITY: COMILIAN	STATE: WA	ZP: 98238	CHECK RE	GULATORY PROGRAM	Corporat						
ATTN. DONG DILLER		PHONE: 360.445	-5211 FAX:	-	SAFE	DRINKING WATER ACT	1620 South Wa						
PHONE 360 734-4955	FAX:734-7689	P.O.#:	ATTN:		CLEAN	WATER ACT	Burlington, WA 98233 1.800.755.9295						
EMAIL: joyce@ datalin	okwest · com	□ VISA □ M/C	KPIRES /	RCR/	A / CERCLA	<u>Microbiology</u> 805 W. Orchard Dr. Sulte 4							
PROJECT NAME: COMWAY	2K1001	CARD#			OTHE	R	Bellingham, WA						
	ANALYSIS REQUESTED												
INSTRUCTIONS 1. USE ONE LINE PER SAM 2. BE SPECIFIC IN TEST RE 3. NEW LIST EACH METAL 4. CHECK OFF ANALYSIS TO FOR EACH SAMPLE LOC 5. ENTER NUMBER OF COL	EQUESTS. INDIVIDUALLY. NEW HOSEN GRANDON.	ROUND TIME REQUIRED STANDARD HALF-TIME (50% SURCHA DUICKEST (100% SURCHARSI EMERGENCY (PHONE CA	E) PHONE CALL REQ.	5035 SOIL NUTPH KG-BTEX	TS/DX numpy-Heab/Dx		ER OF CONTAINERS						
SAMPLE ID	LOCATION	GRAB/ SAMPLE ** COMP. MATRIX*	DATE TIME	503 num	75 Trum	ad		LINSTRUCTIONS/ ONS ON RECEIPT					
1 0	WEST Floor	w Soil 1	0/29 12:00					<u></u>					
2 =	EAST 图 Floor	V Soil 1	0/29 12:30				□ Doctre	blushe					
3 =	East Wall	V Suit 1	12:35				De be	1/29 HH					
4 6	NW wall	V SOIL 10	0/29 1:00										
5	NW Floor	V Soil 19	1300			Y W							
6													
7 8							47000						
9					┆	╡│片 10-	-17908 0191 - 40195						
10					i		0191 - 40195						
SAMPLED BY: DOUG DI	LENBERGER / PH	80 SNE: 734-4955	FAX: 734-	71080	EMAIL: 100406	@datalinkwest	• COM TOTAL	CONTAINERS					
	ED (MUST INCLUDE FAX OR EMAIL	.) *W-WATER	SW-SURF		U U	L-cil							
		DW- DRINKING W	WATER GW-GROU	IND WATER S-	SOIL 0	THER	Y	'es No N/A					
RELINQUISHED BY	DATE	TIME RECEIVED B		D	ATE TIME	CUSTODY SEALS INT	ACT T						
(a. (1011)	1 29.1	7'.44	411	11/2	9/10/1345	SAMPLE TEMPS 1	C SATISFACTORY						
y o in cho	- / "	, <u>, , , , , , , , , , , , , , , , , , </u>		1,5	115 . 7 . 5 .	SAMPLES RECEIVED	- ·	 7					
	- Agai		. Is stay to construct the stay the stay to construct the stay to			CHAIN OF CUSTODY	& LABELS AGREE	 7					
FORM COC 01-06-2009		<u> </u>				1	<u>-</u>						

ern of an arear, and in arear are an arear and an arear, and are



Burlington WA 1626 S Wainut St. 98233 800,755,9295 • 360,757,1400 • 360,757,1402tax Bellingham WA 805 Orchard Dr Suite 4 98225 360,671 0688 • 360,671 15771ax

November 29, 2010

Page 1 of 1

Sample Receipt

Mr. Scott McKnight **NW HydroGeo Consultants** 18700 Main Street Conway, WA 98038

FAX Number: 360-734-7689

Mr. Doug Dillenberger

Dear Scott.

We received the following samples for project "Conway Feed 2K1001" on 11/29/2010 at 1:45 pm. This project is expected to be completed by December 06, 2010. The temperature of the sample cooler was 8.1C. If you have any questions concerning this project please refer to reference number 10-17908.

LAB NUMBER	CLIENT SAMPLE ID#	Date Sampled	Sampled By	Status	COMMENTS
40191	D/West Floor	11/29/10 12:00	Doug Dillenberger	Pending	
40192	E/East Floor	11/29/10 12:30	Doug Dillenberger	Pending	
40193	F/East Wall	11/29/10 12:35	Doug Dillenberger	Pending	
40194	G/NW Well	11/29/10 1:00 p	Doug Dillenberger	Pending	
40195	H/NW Floor	11/29/10 1:00 p	Doug Dillenberger	Pending	

ADDITIONAL COMMENTS:



Page 1 of 1

Qualifier Definitions

Reference Number: 10-17665

Report Date: 12/06/10

Qualifier	Definition
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

FORM: QualifierDefs



1620 S Walnut St - 98233 805 Orchard D 800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA Microbiology

Portland OR Microbiology/Chemistry_

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 503.682.7802

December 6, 2010

Page 1 of 1

Mr. Doug Dillenberger NW HydroGeo Consultants 1941 Lake Whatcom Blvd B3 #113 Bellingham, WA 98229

RE: 10-17908 - Conway Feed 2K1001

Dear Mr. Doug Dillenberger,

Your project: Conway Feed 2K1001, was received on Monday November 29, 2010.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully Submitted,

Lawrence | Henderson, PhD Director of Laboratories

Enclosures Data Report



Burlington WA
Corporate Office
1620 S Walnut St - 98233

Bellingham WA

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755,9295 • 360.757.1400 360.671,0688

Portland ...
Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17908

Project: Conway Feed 2K1001

Report Date: 12/6/10

Date Received: 11/29/10

Reviewed by: 🔱

Sample Description: D - West Floor

Sample Description: D - West Floor

Collected By: Doug Dill

Lab Number: 40191 Collected By: Doug Dillenberger

Analyzed Analyst Batch Comment Method DE MRL MDL Units **PQL** Result Parameter CAS ID# 60108-1012038 12/3/10 1.12 mg/Kg 6010B/3051 3.77 1.12 LEAD 7439-92-1

Sample Description: E - East Floor
Sample Description: E - East Floor

Lab Number: 40192 Collected By: Doug Dillenberger

CAS ID# Parameter Result PQL MRL MDL Units DF Method Analyzed Analyst Batch Comment

7439-92-1 LEAD 3.14 1.19 1.19 mg/Kg 1.00 6010B/3051 12/3/10 BJ 6010B-101203B

Sample Description: F - East Wall Sample Date: 11/29/10

Lab Number: 40193 Collected By: Doug Dillenberger

CAS ID# Parameter Result PQL MRL MDL Units DF Method Analyzed Anal

7439-92-1 LEAD 4.96 1.11 1.11 mg/Kg 1.00 6010B/3051 12/3/10 BJ 6010B-1012038

Sample Description: G - NW Well Sample Date: 11/29/10

Lab Number: 40194 Collected By: Doug Dillenberger

Analyzed Analyst Batch Comment MRL MDL Units DF Method Result POI. Parameter CAS ID# 6010B/3051 12/3/10 6010B-101203B 5.32 1.22 1.22 1.00 ma/Ka 7439-92-1 LEAD

Sample Description: H - NW Floor Sample Date: 11/29/10

Lab Number: 40195 Collected By: Doug Dillenberger

Analyzed Analyst Batch Comment Result PQL MRL MDL Units DF Method **Parameter** CAS ID# 12/3/10 80108-1012038 6010B/3051 5.83 1.22 1.22 mg/Kg LEAD 7439-92-1

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.



1620 S Walnut St - 98233

Bellingham WA

805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

Portland OR Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070

Page 1 of 2

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17908

Project: Conway Feed 2K1001

Report Date: 12/6/10

Date Received: 11/29/10 Peer Review:

Sample Description: D - West Floor

Lab Number: 40191

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130		
HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/3550B	DXS_101130		

Sample Description: E - East Floor

Lab Number: 40192

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130		
HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/3550B	DXS_101130		

Sample Description: F - East Wall

Lab Number: 40193

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130	-	
HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/3550B	DXS_101130		

Sample Description: G - NW Well

Lab Number: 40194

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

<u> </u>										
			Cleanu	р						
Parameter	Result	Flag DF	Level	PQL	MDL	Units	Method	Batch	Comment	
DIESEL (C12 - C24)	ND ·	1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130		
HEAVIER OILS (>C24)	ND	1	2000	50	40	mg/Kg	NWTPH-Dx/3550B	DXS_101130		

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Page 2 of 2:

Reference Number: 10-17908

Report Date: 12/6/10

Hydrocarbon Data Report

Sample Description: H - NW Floor

Lab Number: 40195

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

	-										ا
Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130	ı	
HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/3550B	DXS_101130		

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL, PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision end accuracy during routine laboratory operating conditions. D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter 173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



1620 S Walnut St - 98233

800.755.9295 • 360.757.1400 360.871.0688

Beilingham WA Microbiology

Portla

805 Orchard Dr Ste 4 - 98225

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 1 of 2

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17908

Project: Conway Feed 2K1001

Report Date: 12/2/10

Date Received: 11/29/10

Peer Review:

Sample Description: D - West Floor

Lab Number: 40191

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

				Cleanup)					
Parameter	Result	Flag	DF	Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.03	0.025	0.01	mg/Kg	8260B/5030B	GXS_101130	
TOLUENE	ND		1	7.0	0.10	0.01	mg/Kg	8260B/5030B	GXS_101130	
ETHYLBENZENE	ND		1	6.0	0.10	0.01	mg/Kg	8260B/5030B	GXS_101130	
TOTAL XYLENES	ND		1	9.0	0.20	0.01	mg/Kg	8260B/5030B	GXS_101130	
GAS Range Organics	ND		1	100/30*	25	0.039	mg/Kg	8260B/5035A	GXS_101130	

Sample Description: E - East Floor

Lab Number: 40192

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
	ND		1	0.03	0.025	0.0001	mg/Kg	8260B/5035A	GXS_101130	
BENZENE	IAD		•	0.00	U.ULU	0.000.			_	
TOLUENE	ND		1	7.0	0.10	0.00012	mg/Kg	8260B/5035A	GXS_101130	
ETHYLBENZENE	ND		1	6.0	0.10	0.00013	mg/Kg	6260B/5035A	GXS_101130	
TOTAL XYLENES	ND		1	9.0	0.20	0.0001	mg/Kg	8260B/5035A	GXS_101130	
GAS Range Organics	ND		1	100/30*	25	0.039	mg/Kg	8260B/5035A	GXS_101130	

Sample Description: F - East Wall

Lab Number: 40193

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.03	0.025	0.0001	mg/Kg	8260B/5035A	GXS_101130	
TOLUENE	ND		1	7.0	0.10	0.00012	mg/Kg	8260B/5035A	GXS_101130	
ETHYLBENZENE	ND		1	6.0	0.10	0.00013	mg/Kg	8260B/5035A	GXS_101130	
TOTAL XYLENES	ND		1	9.0	0.20	0.0001	mg/Kg	8260B/5035A	GXS_101130	
GAS Range Organics	ND		1	100/30*	25	0.039	mg/Kg	8260B/5035A	GXS_101130	

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Cleanup Lovel - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter 173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Page 2 of 2

Reference Number: 10-17908

Report Date: 12/2/10

Hydrocarbon Data Report

Sample Description: G - NW Well

Lab Number: 40194

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
BENZENE	ND		1	0.03	0.025	0.0001	mg/Kg	8260B/5035A	GXS_101130		
TOLUENE	ND		1	7.0	0.10	0.00012	mg/Kg	8260B/5035A	GXS_101130		
ETHYLBENZENE	ND		1	6.0	0.10	0,00013	mg/Kg	B260B/5035A	GXS_101130		
TOTAL XYLENES	ND		1	9.0	0.20	0.0001	mg/Kg	8260B/5035A	GXS_101130		,
GAS Range Organics	ND		1	100/30*	25	0.039	mg/Kg	8260B/5035A	GXS_101130		

Sample Description: H - NW Floor

Lab Number: 40195

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
BENZENE	ND		1	0.03	0.025	0.0001	mg/Kg	8260B/5035A	GXS_101130		
TOLUENE	ND		1	7.0	0.10	0.00012	mg/Kg	8260B/5035A	GXS_101130		
ETHYLBENZENE	ND		1	6.0	0.10	0.00013	mg/Kg	8260B/5035A	GXS_101130		
TOTAL XYLENES	ND		1	9.0	0.20	0.0001	mg/Kg	8260B/5035A	GXS_101130		
GAS Range Organics	ND ·		1	100/30*	25	0.039	mg/Kg	8260B/5035A	GXS_101130		

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter 173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 10-17908

Report Date: 12/06/10

ŀ		And the state of t				
ı	Lab No	Analyte	Result Qualifier	Units	Method	Limit
	XS_101130 40191	O-TERPHENYL	90	%	NWTPH-Dx	
١	_9XS_101130 40191	d8-TOLUENE (Surr)	95	%	8260B	Acceptance Range: 50-150%
ĺ)XS_101130 40192	O-TERPHENYL	88	%	NWTPH-Dx	
1	GXS_101130 40192	d8-TOLUENE (Surr)	97	%	8260B	Acceptance Range: 50-150%
	DXS_101130 40193	O-TERPHENYL	103	%	NWTPH-Dx	
	GXS_101130 40193	dB-TOLUENE (Sum)	99	%	8260B	Acceptance Range: 50-150%
	DXS_101130 40194	O-TERPHENYL	92	%	NWTPH-Dx	
1	GXS_101130 - 40194	d8-TOLUENE (Surr)	107	%	8260B	Acceptance Range: 50-150%
٠-	_ DXS_101130 40195	O-TERPHENYL	101	%	NWTPH-Dx	
	GXS_101130 40195	d8-TOLUENE (Surr)	96	%	8260B	Acceptance Range: 50-150%



Bellingham WA

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

9150 SW Pioneer Ct Ste W- 97070 503.682.7802 Page 1 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 10-17908

Report Date: 12/06/10

	ें को विश्वापत.								
			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recover	y Limits	Qualifier Type*	Comment
6010B-101203B	LEAD	0.93	1	mg/L	6010B	93	70-130	LFB	
DV0 404400	DIESEL (C12 - C24)	115	125	mg/Kg	NWTPH-Dx	92	80-120	цFВ	
DXS_101130	•		120				70-130		
	O-TERPHENYL	111		%	NWTPH-Dx		10-100		
								1	
GXS_101130	BENZENE	0.99	1	mg/Kg	8260B	99	70-130	LFB	
_	d8-TOLUENE (Surr)	106		%	8260B				
	ETHYLBENZENE	0.96	1	mg/Kg	8260B	96	70-130		
	GAS Range Organics	277	250	mg/Kg	8260B	111	70-130		
	TOLUENE	0.93	1	mg/Kg	8260B	93	70-130		
	TOTAL XYLENES	2.69	3	mg/Kg	8260B	90	70-130		

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 2 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 10-17908

Report Date: 12/06/10

			True			%	QC		
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment	
6010B-101203B	LEAD	ND		mg/L	6010B	0.0010	LRB		

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

5 9150 SW Pioneer Ct Ste W- 97070 503.682.7802 Page 3 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 10-17908

Report Date: 12/06/10

	Contraction of the contraction o							
			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment
6010B-101203B	LEAD	ND		mg/L	6010B	3.12000) MB	
DXS_101130	DIESEL (C12 - C24)	ND		mg/Kg	NWTPH-Dx	6.2500		
	HEAVIER OILS (>C24)	ND		mg/Kg	NWTPH-Dx	10.000		
	O-TERPHENYL	96		%	NWTPH-Dx	0.0000	0	
GXS_101130	BENZENE	ND		mg/Kg	8260B	0.0600	о мв	ТВ 10-17908
_	d8-TOLUENE (Sum)	103		%	8260B			TB 10-17908
	ETHYLBENZENE	ND		mg/Kg	8260B	0.0600	0	TB 10-17908
	GAS Range Organics	ND		mg/Kg	8260B	5.0000	0	TB 10-17908
	TOLUENE	ND		mg/Kg	8260B	0.0600	0	TB 10-17908
	TOTAL XYLENES	ND		mg/Kg	8260B	0.0600	0	TB 10-17908

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Burlington WA

1620 S Walnut St - 98233 800.755.9295 • 360.757.1400

Bellingham WA Microbiology

360.671.0688

Portland OR Microbiology/Chemistry 805 Orchard Dr Ste 4 - 98225

9150 SW Pioneer Ct Ste W- 97070 503,682,7802

Page 4 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 10-17908

Report Date: 12/06/10

	15th .		True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
6010B-101203B	LEAD	0.97	1	mg/L	6010B	97	70-130	QCS	
GXS_101130	BENZENE d8-TOLUENE (Surr)	10.9 94	10.6	mg/Kg %	8260B 8260B	103	70-130	QCS	
	ETHYLBENZENE GAS Range Organics TOLUENE	6.9 541 33.1	7.1 398 35.2	mg/Kg mg/Kg mg/Kg	8260B 8260B 8260B	97 136 94	70-130 70-130 70-130		

*Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 800,755,9295 • 360,757,1400 360,671,0688

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 503.682.7802



Page 1 of 2

Reference Number: 10-17908

Report Date: 12/6/2010

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Duplica	te						QC		
Batch	Sample Analyte	Result	Duplicate Result	Units	%RPD	Limits	Qualifier	Туре	Comments
6010B-1012	03B 40338 LEAD	8.28	7.99	mg/Kg	3.6	0-45		DUP	
DXS_101136	0 39878 DIESEL (C12 - C24) 39878 O-TERPHENYL	60400 65	58200 127	mg/Kg %	3.7 64.6	0-50 0-50		DUP DUP	
GXS_10113	38211 BENZENE 38211 TOLUENE 38211 ETHYLBENZENE 38211 TOTAL XYLENES 38211 GAS Range Organics 38211 d8-TOLUENE (Surr)	26.1 87.2 16.7 90.4 1120 102	26.5 83.1E 16.6 87.3 1390	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg %	1.5 4.8 0.6 3.5 - 21.5 0.0	0-50 0-50 0-50 0-50 0-50		DUP DUP DUP DUP DUP	
ts_101130	40338 TOTAL SOLIDS FOR CALCULATION	76.09	76.34	%	0.3	0-45		DUP	



Page 2 of 2

Reference Number: 10-17908

Report Date: 12/6/2010

Matrix Snika

Wallix .	DNIKE			Dupacat	.0								
	_ •		Spike	Spike	Spike		Percer	nt Recovery				QC	
Batch	Sample Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier Type Comments	
6010B-1012		0.00	110	115	98.8	mg/Kg	103	108	70-130	4.8	0-50	LFM	
OVO 40440	40338 LEAD	8.28	110	110	30.0	mgrvg	100						
GXS_10113	40191 BENZENE	ND	0.99		1	mg/Kg	99	NA	70-130	NA	0-60	LFM	
	40191 TOLUENE	ND	0.92		1	mg/Kg	92	NA	70-130	NA	0-60 0-60	LFM LFM	
	40191 ETHYLBENZENE	ND	0.76 2.74		1 3	mg/Kg mg/Kg	76 91	NA NA	70-130 70-130	NA NA	0-60	LFM	1
	40191 TOTAL XYLENES 40191 d8-TOLUENE (Surr)	ND 95	106			%		NA		NA		LFM	

Dunlicate

CHAIN OF CUSTODY / ANA	LYSIS REQUEST (PLEAS)	E COMPLETE ALL A	APPLICABLE SHADED SE	CTIONS) F	PAGE / OF /
REPORT TO: NW HUDROGED CONSULTANTS	BILLTO: General Manager Conu	WAY FEED	FOR LAB USE OF	1LY	
ADDRESS: 1941 LX WHAT COM BLVD . B. 31	3 ADDRESS: 18 700 WAIN STREET		REF# 10 - 179	<u> </u>	ANALYTICAL LABORATORIES
CITY: BELLINGHAM STATE: WA 98229	CITY: COMMAN STATE: WA	ZIP: 98238	CHECK REGULATORY F		<u>Corporate</u>
ATTN: DOUG DILLEMBERGER	PHONE: 360.445-5211 FAX:		SAFE DRINKING W	Bı	620 South Walnut St. urlington, WA 98233
PHONE 360 4-4955 FAX 734-7689			CLEAN WATER AC	π	1.800.755.9295
EMAIL: jouce @ datalinkwest . com,	UVISA MIC A/E E	XPIRES /	RCRA / CERCL	•	Microbiology W. Orchard Dr. Suite 4
PROJECT NAME: CONWAY FEED 2K1001	CARD#		OTHER		ellingham, WA 98225
		A	NALYSIS REQUESTE	:D	•
INSTRUCTIONS 1. USE ONE LINE PER SAMPLE LOCATION. TURN	AROUND TIME REQUIRED	$ _{\mathbf{x}} \mid$	යි		S
S ESPECIFIC IN TEST REQUESTS.	STANDARD	Brex			Containers
S. HEW LIST EACH METAL INDIVIDUALLY. NEW CHECK OFF ANALYSIS TO BE PERFORMED	HALF-TIME (50% SURCHARGE) QUICKEST (100% SURCHARGE) PHONE CALL REQ.		 		PNO.
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION. 5. ENTER NUMBER OF CONTAINERS.	EMERGENCY (PHONE CALL REQUIRED)	8 7	<u>참</u>		<u>.</u>
	GRAB/ SAMPLE TOUT	1400 IO. I	<u> </u>		SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
SAMPLE ID LOCATION	COMP. MATRIX* DATE TIME	503 num	27 mm dq dq		2 CONDITIONS ON RECEIPT
1 D WEST Floor	V SOIL 10/29 12:00				
² E EAST 倒 Floor		100000		} □ □ L	Date should
3 F East Wall	V SOIL 10/29 12:35				be 1/29HH
4 G NW Wall	V SOIL 10/29 1:00	닏ㅣ彑.ㅣ			
5 H NW Floor	V Soil 18/29 1:00				<u></u>
6					
7					
9				10-179	UO
10		1	H H H	40191 - 40190	' . ———
SAMPLED BY: DOUG DILLENBERGER	3400 734-4955 FAX:734-	7/280 EM	AIL: joyce@datali	naburst. ama	▼TOTAL CONTAINERS
SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EM	7 *		ASTE WATER OL-OIL	140000000000000000000000000000000000000	
·	DW-DRINKING WATER GW-GROL		OTHER		Yes No N/A
RELINQUISHED BY DATE	TIME RECEIVED BY	DATE	TIME CUSTODY	SEALS INTACT	
caus Illut 11-29	1/1/	11/29/10	SAMPLET	EMPS 1 °C SATISFA	onico
and sun	101.14	10-11/10	SAMPLES	RECEIVED INTACT	
/ 20				. CUSTODY & LABELS A	
FORM: COC 01-06-2009	<u> </u>		CHAIN OF	COSTODT & LABELS A	

0513 LETY 602 (LEE FORD CLEAR CONTRACTOR LETY 623) CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT



1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 9150 SW Ploneer Ct Ste W- 97070 360.755.9295 • 360.757.1400 360.671.0688 9150 SW Ploneer Ct Ste W- 97070 503.682.7802

Bellingham WA Microbiology

Portland OR

Microbiology/Chemistry

RECEIVED

DEC U 6 2010

Page 1 of 1

December 6, 2010

Mr. Doug Dillenberger NW HydroGeo Consultants 1941 Lake Whatcom Blvd B3 #113 Bellingham, WA 98229

RE: 10-17908 - Conway Feed 2K1001

Dear Mr. Doug Dillenberger,

Your project: Conway Feed 2K1001, was received on Monday November 29, 2010.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully Submitted,

Lawrence J Henderson, PhD Director of Laboratories Enclosures Data Report



Bellingham WA

805 Orchard Dr Ste 4 - 98225

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 800.755.9295 • 360.757.1400 360.671.0688 9150 SW Pioneer Ct Sta W- 97070

Page 1 of 2

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17908

Project: Conway Feed 2K1001

Report Date: 12/2/10

Date Received: 11/29/10

Peer Review:

Sample Description: D - West Floor

Lab Number: 40191

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.03	0.025	0.01	mg/Kg	8260B/5030B	GXS_101130	
TOLUENE	ND		1	7.0	0.10	0.01	mg/Kg	8260B/5030B	GXS_101130	
ETHYLBENZENE	ND		1	6.0	0.10	0.01	mg/Kg	8260B/5030B	GXS_101130	
TOTAL XYLENES	ND		1	9.0	0.20	0.01	ກg/Kg	8260B/5030B	GXS_101130	
GAS Range Organics	ND		1	100/30*	25	0.039	mg/Kg	8260B/5035A	GXS_101130	

Sample Description: E - East Floor

Lab Number: 40192

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.03	0.025	0.0001	mg/Kg	8260B/5035A	GXS_101130	
TOLUENE	ND		1	7.0	0.10	0.00012	mg/Kg	8260B/5035A	GXS_101130	
ETHYLBENZENE	ND		1	6.0	0.10	0.00013	mg/Kg	8260B/5035A	GXS_101130	
TOTAL XYLENES	ND		1	9.0	0.20	0.0001	mg/Kg	8260B/5035A	GXS_101130	
GAS Range Organics	ND		1	100/30*	25	0.039	mg/Kg	8260B/5035A	GXS_101130	

Sample Description: F - East Wall

Lab Number: 40193

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.03	0.025	0.0001	mg/Kg	8260B/5035A	GXS_101130	
TOLUENE	ND		1	7.0	0.10	0.00012	mg/Kg	8260B/5035A	GXS_101130	
ETHYLBENZENE	ND		1	6.0	0.10	0.00013	mg/Kg	8260B/5035A	GXS_101130	
TOTAL XYLENES	ND		1	9.0	0.20	0.0001	mg/Kg	8260B/5035A	GXS_101130	
GAS Range Organics	ND		1	100/30*	25	0.039	mg/Kg	8260B/5035A	GXS_101130	,

Notation:

Cleanup Level - The regulatory limit for Method A Cleanup Levels (NTCA, Chapter173-340 WAC) contaminents in the specified motiful Amended Feb 12, 2001

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be activeed within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total athylbenzane, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Page 2 of 2

Reference Number: 10-17908 Report Date: 12/2/10

Hydrocarbon Data Report

Sample Description: G - NW Well

Lab Number: 40194

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

1										
Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.03	0.025	0.0001	mg/Kg	8260B/5035A	GXS_101130	
TOLUENE	ND		1	7.0	0.10	0.00012	mg/Kg	8260B/5035A	GXS_101130	
ETHYLBENZENE	ND		1	6.0	0.10	0.00013	mg/Kg	8260B/5035A	GXS_101130	
TOTAL XYLENES	ND		1	9.0	0.20	0.0001	mg/Kg	8260B/5035A	GXS_101130	
GAS Range Organics	ND		1	100/30*	25	0.039	mg/Kg	82608/5035A	GXS_101130	•

Sample Description: H - NW Floor

Lab Number: 40195

Date 11/30/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: HY

Cleanup MDL Batch Comment Method Level PQL Units Result Flag DF Parameter G)(S_101130 0.0001 mg/Kg 8260B/5035A ND 0.03 0.025 BENZENE GXS_101130 8260B/5035A 7.0 0.10 0.00012 mg/Kg ND TOLUENE GXS_101130 6.0 0.10 0.00013 mg/Kg 8260B/5035A ND ETHYLBENZENE GXS_101130 8260B/5035A 9.0 0.0001 mg/Kg ND **TOTAL XYLENES** GXS_101130 mg/Kg 8260B/5035A 100/30* 0.039 ND **GAS Range Organics**

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter 173-340 WAC) contembants in the specified metric. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzane, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 800.755.9295 • 360.757.1400

805 Orchard Dr Ste 4 - 98225 360.671.0688

9150 SW Pioneer Ct Ste W- 97070

Page 1 of 2

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17908

Project: Conway Feed 2K1001

Report Date: 12/6/10

Date Received: 11/29/10

Peer Review:

Sample Description: D - West Floor

Lab Number: 40191

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

Cleanup Batch Comment Method Flag DF POL MDL. Units Level Parameter Result DXS_101130 NWTPH-Dx/3550B 2000 25 mg/Kg 1 DIESEL (C12 - C24) DXS_101130 NWTPH-Dx/3550B 2000 50 40 mg/Kg ND 1 **HEAVIER OILS (>C24)**

Sample Description: E - East Floor

Lab Number: 40192

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

Cleanup Batch Comment POL MDL Units Method Result Flag DF 1 evei Parameter NWTPH-Dx/3550B DXS_101130 mg/Kg DIESEL (C12 - C24) ND 2000 50 25 mg/Kg NWTPH-Dx/3550B DXS_101130 ND 2000 40 HEAVIER OILS (>C24) 1 50

Sample Description: F - East Wall

Lab Number: 40193

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

Parameter	Result F	Flag DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
DIESEL (C12 - C24)	ND	1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130	T	
HEAVIER OILS (>C24)	ND	1	2000	50	40	mg/Kg	NWTPH-Dx/35508	DXS_101130	1	

Sample Description: G - NW Well

Lab Number: 40194

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

1	Date 12 0 10											
	Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
L	DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130		
	HEAVIER OILS (>C24)	ND		1	2000	50	40	mg/Kg	NWTPH-Dx/3550B	DXS_101130		

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Urnit - MRL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

up Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter 173-340 WAC) contaminents in the specified metrix. An ended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Page 2 of 2

Reference Number: 10-17908

Report Date: 12/6/10

Hydrocarbon Data Report

Sample Description: H - NW Floor

Lab Number: 40195

Date 12/1/10

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed By: EM

ı		_									
Ì	Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
L	DIESEL (C12 - C24)	ND		1	2000	50	25	mg/Kg	NWTPH-Dx/3550B	DXS_101130	
	HEAVIER OILS (>C24)	ND		1	2000	50	40	тд/Кд	NWTPH-Dx/3550B	DXS_101130	

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.

PCIL - Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor

Cleanup Level - The regulatory limit for Michod A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, tolueno and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 800.755.9295 • 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225

9150 SW Ploneer Ct Ste W- 97070

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-17908

Project: Conway Feed 2K1001

Report Date: 12/6/10

Date Received: 11/29/10

Reviewed by:

Sample Description: D - West Floor

Lab Number: 40191

LEAD

7439-92-1

Sample Date: 11/29/10

Collected By: Doug Dillenberger

Analyzed Analyst Batch Comment Method PQL MRL MDL Units DE Parameter Result CAS ID# 60109-101203B 1,12 60109/3051 12/3/10 3.77 1.12

Sample Date: 11/29/10 Sample Description: E - East Floor

Collected By: Doug Dillenberger

Lab Number: 40192

Comment Analyzed Analyst Batch MDL DF Method PQL MRL Units Parameter Result CAS ID# 6010B/3051 12/3/10 3.14 1.19 1.19 ma/Ka 1.00 LEAD 7439-92-1

Sample Date: 11/29/10

Sample Description: F - East Wall Collected By: Doug Dillenberger Lab Number: 40193

Comment Analyzed Analyst Batch Method Parameter Result PQL MRL MDL Units DF CAS ID# 6010R-101203R 6010B/3051 12/3/10 ы 4.96 1.11 1.11 mg/Kg 7439-92-1 LEAD

Sample Date: 11/29/10 Sample Description: G - NW Well

Collected By: Doug Dillenberger

Lab Number: 40194

Analyzed Analyst Batch Comment DF Method MDL Units MRI. CAS ID# Parameter Result PQL 6010B/3051 12/3/10 60108-1012038 LEAD 5.32 1.22 1.22 mg/Kg 1.00 7439-92-1

Sample Date: 11/29/10 Sample Description: H - NW Floor

Collected By: Doug Dillenberger Lab Number: 40195

Analyzed Analyst Batch Comment DF Method MDL Units MRI CAS ID# Parameter Resuit PQL 1.22 6010B/3051 12/3/10 5.83 1.22 1.00 7439-92-1 LEAD

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.



Burlington WA Corporate Office 1620 5 Walnut St - 98233

800.755.9295 • 360.757.1400

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 360.671.0688

Portland OR Microbiology/Chemistry

9150 SW Pigneer Ct Sie W- 97070

Page 1 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 10-17908

Report Date: 12/06/10

			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recove	ry Limits	QualifierType*	Comment
6010B-101203B	LEAD	0.93	1	mg/L	6010B	93	70-130	LFB	
DXS_101130	DIESEL (C12 - C24)	115	125	mg/Kg	NWTPH-Dx	92	80-120	LFB	
	O-TERPHENYL	111		%	NWTPH-Dx		70-130		
GXS_101130	BENZENE	0.99	1	mg/Kg	8260B	99	70-130	LFB	
_	d8-TOLUENE (Surr)	106		%	8260B				
	ETHYLBENZENE	0.96	1	mg/Kg	8260B	96	70-130		
	GAS Range Organics	277	250	mg/Kg	8260B	111	70-130		
	TOLUENE	0.93	1	mg/Kg	8260B	93	70-130		
	TOTAL XYLENES	2.69	3	mg/Kg	8260B	90	70-130		

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits. MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233

805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0588

9150 SW Pioneer CI Ste W- 97070 503.682.7802

Page 2 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 10-17908

Report Date: 12/06/10

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment
6010B-101203B	LEAD	ND		mg/L	6010B	0.0010) LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, end its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

Microbiology/Chemistry

Portland OR

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755,9295 • 360.757,1400 360.671.0688

9150 SW Pioneer Ct Sta W- 97070 503.682.7802

Page 3 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 10-17908

Report Date: 12/06/10

	TO TO THE TOTAL PARTY OF THE TOT								
			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery L	Limits	QualifierType*	Comment
6010B-101203B	LEAD	ND		mg/L	6010B	3	3.12000	MB	
DXS_101130	DIESEL (C12 - C24)	ND		mg/Kg	NWTPH-Dx	6	6.25000	МВ	
_	HEAVIER OILS (>C24)	ND		mg/Kg	NWTPH-Dx	•	10.0000	C	
	O-TERPHENYL	96		%	NWTPH-Dx	(0.00000		
GXS_101130	BENZENE	ND		mg/Kg	8260B	(0.06000	MB	TB 10-17908
0,0_101100	d8-TOLUENE (Surr)	103		%	8260B				TB 10-17908
	ETHYLBENZENE	ND		mg/Kg	8260B	(0.06000	1	TB 10-17908
	GAS Range Organics	ND		mg/Kg	8260B		5.00000	1	TB 10-17908
	TOLUENE	ND		mg/Kg	8260B	(0.06000	1	TB 10-17908
	TOTAL XYLENES	ND		mg/Kg	8260B	(0.06000	1	TB 10-17908

*Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an eliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 800.755.9295 - 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225

9150 SW Pioneer Ct Ste W- 97070

503.682.7802

Page 4 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 10-17908

Report Date: 12/06/10

			True					QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
6010B-101203B	LEAD	0.97	1	mg/L	6010B	97	70-130	QCS	
GXS_101130	BENZENE	10.9	10.6	mg/Kg	8260B	103	70-130	qcs	
_	d8-TOLUENE (Surr)	94		%	8260B				
	ETHYLBENZENE	6.9	7.1	mg/Kg	8260B	97	70-130		
	GAS Range Organics	541	398	mg/Kg	8260B	136	70-130		
	TOLUENE	33.1	35.2	mg/Kg	8260B	94	70-130		

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walnut St - 96233 805 Orchard D 800.755.9295 • 360.757 1400 360.671.0688

Bellingham WA

Portland OR Microbiology/Chemistry

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070



Page 1 of 2

SAMPLE DEPENDENT **QUALITY CONTROL REPORT**

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 10-17908 Report Date: 12/6/2010

Duplica	ite									
-				Duplicate				QC		
Batch	Sample	Analyte	Result	Result	Units	%RPD	Limits	Qualifier	Type Comments	
6010B-1012	03B				<u> </u>					
	40338	LEAD	8.28	7.99	mg/Kg	3.6	0-45		DUP	
DXS_101130)									
_		DIESEL (C12 - C24)	60400	58200	mg/Kg	3.7	0-50		DUP	
	39878	O-TERPHENYL	65	127	%	64.6	0-50		DUP	
GXS_10113	0									
_	38211	BENZENE	26.1	26.5	ug/Kg	1.5	0-50		DUP	
	38211	TOLUENE	87.2	83.1E	ug/Kg	4.8	0-50		DUP	
	38211	ETHYLBENZENE	16.7	16.6	ug/Kg	0.6	0-50		DUP	
	38211	TOTAL XYLENES	90.4	87.3	ug/Kg	3.5	0-50		DUP	
	38211	GAS Range Organics	1120	1390	ug/Kg	21.5	0-50		DUP	
	38211	d8-TOLUENE (Surr)	102	102	%	0.0			DUP	
ts_101130										
_	40338	TOTAL SOLIDS FOR CALCULATION	76.09	76.34	%	0.3	0-45		DUP	



Page 2 of 2

Reference Number: 10-17908

Report Date: 12/6/2010

Matrix Spike

Duplicate Spike Spike Percent Recovery QC Spike Batch Sample Analyte Result Units MS MSD Limits %RPD Limits Qualifier Type Comments Result Result Conc 6010B-101203B 40338 LEAD LFM 8.28 110 115 98,8 mg/Kg 103 108 70-130 4.8 0-50 GXS_101130 40191 BENZENE ND 0.99 1 mg/Kg 99 NA 70-130 NA 0-60 LFM LFM 40191 TOLUENE ND 0.92 1 mg/Kg 92 NA 70-130 NA 0-60 40191 ETHYLBENZENE ND 0.76 LFM mg/Kg 76 NA 70-130 NA 0-60 LFM 40191 TOTAL XYLENES ND 2.74 3 mg/Kg 91 NA 70-130 NA 0-60 LFM 40191 d8-TOLUENE (Surr) 95 106 % NA NA

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 10-17908 Report Date: 12/06/10

1	······································				
Lab No	Analyte	Result Qualifier	Units	Method	Limit
DXS_101130 40191	O-TERPHENYL	90	%	NWTPH-Dx	
GXS_101130 40191	d8-TOLUENE (Sum)	95	%	8260B	Acceptance Range: 50-150%
DXS_101130 40192	O-TERPHENYL	88	%	NWTPH-Dx	
GXS_101130 40192	d8-TOLUENE (Sum)	97	%	8260B	Acceptance Range: 50-150%
DXS_101130 40193	O-TERPHENYL	103	%	NWTPH-Dx	
GXS_101130 40193	d8-TOLUENE (Sum)	99	%	8260B	Acceptance Range: 50-150%
DXS_101130	O-TERPHENYL	92	%	NWTPH-Dx	
GXS_101130 40194	d8-TOLUENE (Surr)	107	%	8260B	Acceptance Range: 50-150%
DXS_101130 40195	O-TERPHENYL	101	%	NWTPH-Dx	
GXS_101130 40195	d8-TOLUENE (Suπ)	96	%	8260B	Acceptance Range: 50-150%

CHAIN OF CUSTODY / AN	IALYSIS REQUEST	(PLEASE COMPLETE ALL	APPLICABLE SHA	ADED SECTIONS)	PAGE/_OF/		
REPORT TO: NW HUDROGED CONSULTANT	S BILL TO: General Manage	r Conway FEED	For La	B USE ONLY			
ADDRESS: 1941 LE WHATCOM BLVD . B.	113 ADDRESS: 18700 WAIN 61		Ref# -	17908	ANALYTICAL		
CITY: BELLINGHAM STATE: WA GEZ		TE:WA ZP: 98238	CHECK REGU	LATORY PROGRAM	<u>Corporate</u>		
ATTN: DOLG DULLEN BERGER	PHONE: 360.445-5211	FAX:	SAFE DR	INKING WATER ACT	1620 South Walnut St. Burlington, WA 98233		
PHONE 360 134-4955 FAX: 734-768		ATTN:		ATER ACT	1.800.755.9295		
EMAIL: joyce@datalinkwest.com	UVISA UM/C OA/E	E EXPIRES /	RCRA/	CERCLA	Microbiology 805 W. Orchard Dr. Suite 4		
PROJECT NAME: CONWAY FEED 2KIOOI							
		···	ANALYSIS RE	QUESTED			
2. BE SPECIFIC IN TEST REQUESTS. 3. HEW LIST EACH METAL INDIVIDUALLY. NEW	URN AROUND TIME REQUIRED STANDARD HALF-TIME (50% SURCHARGE) QUICKEST (100% SURCHARGE) PHONE CALL REQU	UIRED)	75/Dx nurpн- неи в/Dx		ER OF CONTAINERS		
SAMPLE ID LOCATION	GRABI SAMPLE DATE	TIME 203	75, num	ad	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT		
1 D West Floor	W SOIL 10/29	12:00					
2 E EAST 图FL	Soil 10/29	12:00			Docte should		
3 F East Wall	V Sul 10/29	12:35			be 1/29 HH		
4 G NW wall							
5 H NW Floor	V SOIL 10/29	1:00			니 · · · · · · · · · · · · · · · · · · ·		
7							
8					17008		
9					17908		
10							
SAMPLED BY: DOUG DILLENBERGER	PHONE: 734-4955 FAX	6734-71089 E	MAIL: jouce@	datalinkwest	◆ COM TOTAL CONTAINERS		
SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OF	*W-water DW- DRINKING WATER	SW-SURFACE WATER GW-GROUND WATER S-SCH	WASTE WATER OL-		Yes no n/A		
RELINQUISHED BY	DATE TIME RECEIVED BY	DATE	E TIME (CUSTODY SEALS INTA	ACT.		
Long Aller	29-167:45	1/29/		SAMPLE TEMP <u>S · / ·</u> SAMPLES RECEIVED I			
A A A				Chain of custody 8	& LABELS AGREE		
FORM COC 01-06-2009	•						

aide dem dala nide una cina ella mala tem cilla ficia ficia ficia mem atta etta ficta cilla alla



NW HydroGeo Consultants

Burlington WA 1620 S Walmut St. 98233 800.755.9295 360.757.1400 360.757.1402tax
Bellingham WA 805 Orchard Dr Suite 4 98225 360.671.0688 360.671 1577fax

November 29, 2010

Page 1 of 1

Sample Receipt

FAX Number: 360-734-7689

Mr. Doug Dillenberger

Dear Scott,

Mr. Scott McKnight

18700 Main Street

Conway, WA 98038

We received the following samples for project "Conway Feed 2K1001" on 11/29/2010 at 1:45 pm. This project is expected to be completed by December 06, 2010. The temperature of the sample cooler was 8.1C. If you have any questions concerning this project please refer to reference number 10-17908.

LAB NUMBER	CLIENT SAMPLE ID#	Date Sampled	Sampled By	Status	COMMENTS
40191	D/West Floor	11/29/10 12:00	Doug Dillenberger	Pending	
40192	E/East Floor	11/29/10 12:30	Doug Dillenberger	Pending	
40193	F/East Wall	11/29/10 12:35	Doug Dillenberger	Pending	
40194	G/NW Well	11/29/10 1:00 p	Doug Dillenberger	Pending	
40195	H/NW Floor	11/29/10 1:00 r	Doug Dillenberger	Pending	

ADDITIONAL COMMENTS:



J

Page 1 of 1

Qualifier Definitions

Reference Number: 10-17665

Report Date: 12/06/10 Definition Qualifier

> Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

FORM: QualifierDefs

Soil Samples Collected on June 20, 2011 Sample Locations 1, 2 and 3



1620 S Walnut St - 98233

800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225

Portla Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 11-09338

Project: 2K1004-1

Report Date: 7/8/11

Date Received: 6/20/11

Reviewed by:

Sample Description: 6-20-1 - 2K1004-1

Lab Number: 20365

Sample Date: 6/20/11

Collected By: Doug Dillenberger

Result . PQL MRL MDL Units DF Method Analyzed Analyst Batch Comment CAS ID# Parameter 6.23 6010B/3051 7439-92-1 LEAD 1.09 1.09 6/24/11 6010B-110624A

Sample Description: 6-20-2 - 2K1004-1

Lab Number: 20366 Sample Date: 6/20/11

Collected By: Doug Dillenberger

Result **PQL** MRL MDL Units DF Method Analyzed Analyst Batch Comment CAS ID# Parameter 2.14 0.92 6010B/3051 6010B-110706A LEAD 0.92 1.00 7439-92-1 mg/Kg

Sample Description: 6-20-3 - 2K1004-1

Lab Number: 20367 Sample Date: 6/20/11

Collected By: Doug Dillenberger

4 .

CAS ID# **Parameter** Result **PQL** MRL MDL Units Method Analyzed Analyst Batch Comment 6010B/3051 6010B-110706A 1.70 0.98 0.98 7/8/11 7439-92-1 LEAD mg/Kg

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor



Burlington WA Corporate Office 1620 S Walnut St - 98233 Bellingham WA Microbiology

Portla. Microbiology/Chemistry

800.755.9295 • 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 11-09338

Project: 2K1004-1

Report Date: 6/27/11

Date Received: 6/20/11

Peer Review:

Sample Description: 6-20-1 - 2K1004-1

Lab Number: 20365 Date 6/21/11 Sample Date: 6/20/11

Collected By: Doug Dillenberger

Analyzed By: HY

				Cleanu)	-				i	
Parameter	Result	Flag	DF	Level	PQL	MDL	Units	Method	Batch	Comment	
BENZENE	ND		1	0.03	0.025	0.00019	mg/Kg	8260B/5035A	GXS_110621		· —
TOLUENE	ND		1	7.0	0.10	0.0002	mg/Kg	8260B/5035A	GXS_110621	0	
ETHYLBENZENE	ND		1	6.0	0.10	0.00021	mg/Kg	8260B/5035A	GXS_110621		1
TOTAL XYLENES	ND		1	9.0	0.20	0.00027	mg/Kg	8260B/5035A	GXS_110621		T
} .											

Sample Description: 6-20-2 - 2K1004-1

Lab Number: 20366

Date 6/21/11

Sample Date: 6/20/11

Collected By: Doug Dillenberger

Analyzed By: HY

1.1	Cleanup									
Parameter	Result Fla	g DF	Level	PQL	MDL	Units	Method	Batch	Comment	
BENZENE	ND	1	0.03	0.025	0.01	mg/Kg	8260B/5035A	GXS_110621	-	
II TOLUENE	ND	1	7.0	0.10	0.01	mg/Kg	8260B/5035A	GXS_110621		
ETHYLBENZENE	ND	1	6.0	0.10	0.01	mg/Kg	8260B/5035A	GXS_110621		
TOTAL XYLENES	ND	1	9.0	0.20	0.01	mg/Kg	8260B/5035A	GXS_110621		

Sample Description: 6-20-3 - 2K1004-1

Lab Number: 20367

Date 6/21/11

Sample Date: 6/20/11

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment	
BENZENE	ND		1	0.03	0.025	0.00019	mg/Kg	8260B/5035A	GXS_110621	-	
TOLUENE	0.2		1	7.0	0.10	0.0002	mg/Kg	8260B/5035A	GXS_110621		
ETHYLBENZENE	ND		1	6.0	0.10	0.00021	mg/Kg	8260B/5035A	GXS_110821		,
TOTAL XYLENES	ND		1	9.0	0.20	0.00027	mg/Kg	8260B/5035A	GXS_110621		

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Bellingham WA Microbiology

Portlanu ∪R Microbiology/Chemistry

1620 S Welnut St - 98233 605 Orchard D 800.755.9295 • 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 1 of 4



SAMPLE INDEPENDENT **QUALITY CONTROL REPORT**

Laboratory Fortified Blank

Reference Number: 11-09338

Report Date: 07/08/11

			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
6010B-110624A	LEAD	0.89	1	mg/L	6010B	89	70-130	LFB	
6010B-110706A	LEAD	1	1		6010B	100	70-130	LED	
6010B-110700A	LEAD	,	'	mg/L	60108	100	70-130	LFB	
GXS_110621	BENZENE	0.91	1	mg/Kg	8260B	91	70-130	LFB	
	d8-TOLUENE (Surr)	104		%	8260B				
	ETHYLBENZENE	0.88	1	mg/Kg	8260B	88	70-130		
	TOLUENE	0.93	1	mg/Kg	8260B	93	70-130		
	TOTAL XYLENES	2.61	3	mg/Kg	8260B	87	70-130		

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walnut St - 98233

800.755.9295 • 360.757.1400

Bellingham WA

805 Orchard Dr Ste 4 - 98225 360.671,0688

Portland OR Microbiology/Chemistry

9150 SW Pionear Ct Ste W- 97070 503.662.7802 Page 2 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 11-09338

Report Date: 07/08/11

			True			%	QC		
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	QualifierType*	Comment	
6010B-110624A	LEAD	ND		mg/L	6010B	0.00100	LRB		
6010B-110706A	LEAD	ND		mg/L	6010B	0.00100	LRB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100 NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walnut St - 98233

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 800.755.9295 • 360.757.1400 360.671.0688

Portland OR Microbiology/Chemistry

Page 3 of 4



SAMPLE INDEPENDENT **QUALITY CONTROL REPORT**

Method Blank

Reference Number: 11-09338

Report Date: 07/08/11

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment
6010B-110624A	LEAD	ND		mg/L	6010B	3.120	00 MB	
6010B-110706A	LEAD	ND			COAOD	0.400	20 140	
00 100-1 10100A	LEAD	טאו		mg/L	6010B	3.120	00 MB	
GXS_110621	BENZENE	ND		mg/Kg	8260B	0.060	00 МВ	TB 11-09338
	d8-TOLUENE (Surr)	101		%	8260B			TB 11-09338
	ETHYLBENZENE	ND		mg/Kg	8260B	0.060	00	TB 11-09338
	TOLUENE	NĐ		mg/Kg	8260B	0.060	00	TB 11-09338
	TOTAL XYLENES	ND		mg/Kg	8260B	0.060	10	TB 11-09338

*Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360,757,1409 360,671,0688

9150 SW Pioneer Ct Ste W- 97070

Page 4 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 11-09338

Report Date: 07/08/11

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC QualifierType*	Comment
6010B-110624A	LEAD	1	1	mg/L	6010B	100	70-130	QCS	
6010B-110706A	LEAD	1.01	1	mg/L	6010B	101	70-130	QCS	

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB; Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 800.755.9295 • 360.757.1400

360.871.0688

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070



Page 1 of 2

SAMPLE DEPENDENT **QUALITY CONTROL REPORT**

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 11-09338 Report Date: 7/8/2011

Duplicate

Batch	Sample Analyte	Result	Duplicate Result	Units	%RPD Limits	QC Qualifie	r Type Comments
GXS_110621				<u></u>			
	20365 d8-TOLUENE (Surr)	101	101	%	0.0		DUP
	20367 TOLUENE	0.2	0.14	mg/Kg	35.3 0-50	ST	DUP
	20367 d8-TOLUENE (Surr)	101	103	%	2.0	-	DUP



Page 2 of 2

Reference Number: 11-09338

Report Date: 7/8/2011

Matrix Spike

				Duplicate											
			Spike	Spike	Spike		<u>Percer</u>	t Recovery				QC			
Batch	Sample Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier	Туре	Comments	
GXS_110621								-							
	20366 BENZENE	ND	0.91		1	mg/Kg	91	NA	70-130	NA	0-60		LFM		
	20366 TOLUENE	ND	0.92		1	mg/Kg	92	NA	70-130	NA	0-60		LFM		
	20366 ETHYLBENZENE	ND	0.85		1	mg/Kg	85	NA	70-130	NA	0-60		LFM		
	20366 TOTAL XYLENES	ND	2.53		3	mg/Kg	84	NA	70-130	NA	0-60		LFM		
	20366 d8-TOLUENE (Surr)	102	104			%		NA		NA			LFM		

Dunliente



Page 1 of 1

Qualifier Definitions

Reference Number: 11-09338

Report Date: 07/08/11

Qualifier	Definition
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
ST	Statistical limits do not apply for method 5035a







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 11-09338

Report Date: 07/08/11

Lab No	Analyte	Result Qualifier	Units	Method	Limit
GXS_110621 20365	d8-TOLUENE (Surr)	101	%	8260B	Acceptance Range: 50-150%
GXS_110621 20366	d8-TOLUENE (Surr)	102	%	8260B	Acceptance Range: 50-150%
GXS_110621 20367	d8-TOLUENE (Surr)	101	%	8260B	Acceptance Range: 50-150%

Stockpile Soil Samples Collected on August 01, 2011
Sample Locations A, B and C



Bellingham WA

Portland OR

1620 S Webrut St - 98233 805 Orchard D 500 755,9295 • 360,757 1400 360 671 0686

805 Orchard Dr Ste 4 - 98225

Microbiology/Chemistry
9150 SW Poseer CLSV

9150 SW Proneer Ct Ste W- 97070 503.682.7602

August 19, 2011

Page 1 of 1

Mr. Doug Dillenberger NW HydroGeo Consultants 1941 Lake Whatcom Blvd B3 #113 Bellingham, WA 98229

RE: 11-11910 - 2K 1004-1 Conway Feed

Dear Mr. Doug Dillenberger,

Your project: 2K 1004-1 Conway Feed, was received on Monday August 01, 2011.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully Submitted,

Lawrence J Henderson, PhD Director of Laboratories

Enclosures Data Report



Bellingham WA **Mcrobiology**

Portland OR Microbiology/Chemistry

1620 S Watnut St - 98233 800 755 9295 + 360.757 1400 360.671 0688

805 Orchard Dr Ste 4 - 98225

9158 SW Proneer Ct Ste W- 97070

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 11-11910

Project: 2K 1004-1 Conway Feed

60108-1108048

Report Date: 8/19/11

Date Received: 8/1/11 Reviewed by:

8/4/11

Sample Date: 8/1/11 Sample Description: 8-01-A - Remediation Field

Lab Number: 26091 Collected By: Doug Dillenberger

CAS ID# **Parameter** Result **PQL** MRL MDL Units DF Method Analyzed Analyst Batch Comment 7439-92-1 LEAD 13.7 6010B/3051 0.95

mg/Kg

1.00

Sample Date: 8/1/11 Sample Description: 8-01-B - Remediation Field

0.95

Lab Number: 26092 Collected By: Doug Dillenberger

CAS ID# **Parameter** Result MDL PQL MRL Units DF Method Analyzed Analyst Batch Comment 7439-92-1 LEAD 13.6 0.77 0.77 6010B/3051 8/4/11 BJ 6010B-110804B mg/Kg 1.00

Sample Description: 8-01-C - Remediation Field Sample Date: 8/1/11

 Lab Number: 26093 Collected By: Doug Dillenberger

CAS ID# **Parameter** Result PQL MRL MDL Units DF Method Analyzed Analyst Batch Comment 7439-92-1 LEAD 18.8 0.95 n 95 ma/Ka 1.00 6010B/3051 B/4/11 BJ 60108-1108049

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor



Burlington WA

1620 S Walnut St - 98233

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 9150 SW Proneer Ct Ste W- 97070 800.755.9295 • 360.757.1400 360.671.0688

Portland OR Microbiology/Chemistry

WSDOE Lab C1251

DATA REPORT

Page 1 of 2

Client Name: NW HydroGeo Consultants

Reference Number: 11-11910

1941 Lake Whatcom Blvd B3 #113 Bellingham, WA 98229

Project: 2K 1004-1 Conway Feed

Lab Number: 26093

Field ID: 8-01-C

Report Date: 8/19/11 Date Analyzed: 8/15/11

Sample Description: Remediation Field

Analyst: HY

Matrix: Soil

Peer Review: Eun

Sample Date: 8/1/11 Extraction Date: 8/15/11 Analytical Method: 8260B Batch: 8260S 110815

Extraction Method: 5030B

_	CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	75-34-3	1,1 - DICHLOROETHANE	ND		ug/Kg	0.10	0.10	-	1.00	
	75-35-4	1,1 - DICHLOROETHYLENE	ND		ug/Kg	0.10	0.10	-	1.00	
	563-58-6	1,1 - DICHLOROPROPENE	ND		ug/Kg	0.10	0.10	-	1.00	
	71-55-6	1,1,1 - TRICHLOROETHANE	ND		ug/Kg	0.025	0.025	-	1.00	
	630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		ug/Kg	0.10	0.10	-	1.00	
	79-00-5	1,1,2 - TRICHLOROETHANE	ND		ug/Kg	0.10	0.10	-	1.00	
	79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND.		ug/Kg	0.10	0.10	-	1.00	
	106-93-4	1,2 - DIBROMOETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
	95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		ug/Kg	0.10	0.10	-	1.00	
	107-06-2	1,2 - DICHLOROETHANE	ND		ug/Kg	0.10	0.10	-	1.00	
	78-87-5	1,2 - DICHLOROPROPANE	ND		ug/Kg	0.10	0.10	-	1.00	
	87-61-6	1,2,3 - TRICHLOROBENZENE	ND		ug/Kg	0.10	0.10	-	1.00	
	96-18-4	1,2,3 - TRICHLOROPROPANE	ND		ug/Kg	0.10	0.10	-	1.00	
	120-82-1	1,2,4 - TRICHLOROBENZENE	ND		ug/Kg	0.10	0.10	-	1.00	
	95-63-6	1,2,4 - TRIMETHYLBENZENE	ND		ug/Kg	0.10	0.10	-	1.00	
	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		ug/Kg	0.10	0.10	-	1.00	
	541-73-1	1,3 - DICHLOROBENZENE (meta)	ND		ug/Kg	0.10	0.10	-	1.00	
	142-28-9	1,3 - DICHLOROPROPANE	ND		ug/Kg	0.10	0.10	-	1.00	
	108-67-8	1,3,5 - TRIMETHYLBENZENE	ND		ug/Kg	0.10	0.10	-	1.00	
	110-57-6	1,4 - DICHLORO-2-BUTENE	ND		mg/Kg	0.25	0.25	-	1.00	
	106-46-7	1,4 - DICHLOROBENZENE (para)	ND		ug/Kg	0.10	0.10	-	1.00	
	109-69-3	1-CHLOROBUTANE	ND		mg/Kg	0.10	0.10	-	1.00	
	594-20-7	2,2 - DICHLOROPROPANE	ND		ug/Kg	0.10	0.10	-	1.00	
	78-93-3	2-BUTANONE (MEK)	ND		mg/Kg	1.25	1.25	-	1.00	
	591-78-6	2-HEXANONE	ND		mg/Kg	0.5	0.5	-	1.00	
	79-46-9	2-NITROPROPANE	ND		mg/Kg	0.5	0.5	-	1.00	
	108-10-1	4-METHYL-2-PENTANONE	ND		mg/Kg	0.125	0.125	-	1.00	
	67-64-1	ACETONE	ND		mg/Kg	0.5	0.5	-	1.00	
	107-13-1	ACRYLONITRILE	ND		mg/Kg	0.10	0.10	-	1.00	
	107-05-1	ALLYL CHLORIDE	ND		mg/Kg	0.10	0.10	-	1.00	
	71-43-2	BENZENE	ND		ug/Kg	0.025	0.025	-	1.00	
	108-86-1	BROMOBENZENE	ND		ug/Kg	0.10	0.10	-	1.00	

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



Lab Number: 26093 Report Date: 8/19/11 Page 2 of 2

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
74-97-5	BROMOCHLOROMETHANE	ND		ug/Kg	0.10	0.10	_	1.00	
75-27-4	BROMODICHLOROMETHANE	ND		ug/Kg	0.10	0.10	-	1.00	
75-25-2	BROMOFORM	ND		ug/Kg	0.10	0.10	-	1.00	
74-83-9	BROMOMETHANE	ND		ug/Kg	0.50	0.50	-	1.00	
75-15-0	CARBON DISULFIDE	ND		mg/Kg	0.10	0.10	•	1.00	
56-23-5	CARBON TETRACHLORIDE	ND		ug/Kg	0.10	0.10	-	1.00	
108-90-7	CHLOROBENZENE	ND		ug/Kg	0.10	0.10	-	1.00	
124-48-1	CHLORODIBROMOMETHANE	ND		ug/Kg	0.10	0.10	-	1.00	
75-00-3	CHLOROETHANE	ND		ug/Kg	0.10	0.10	-	1.00	
67-66-3	CHLOROFORM	ND		ug/Kg	0.10	0.10	-	1.00	
74-87-3	CHLOROMETHANE	ND		ug/Kg	0.125	0.125	-	1.00	
156-59-2	CIS - 1,2 - DICHLOROETHYLENE	ND		ug/Kg	0.10	0.10	-	1,00	
10061-01-	CIS - 1,3 - DICHLOROPROPENE	ND		ug/Kg	0.10	0.10	-	1.00	
74-95-3	DIBROMOMETHANE	ND		ug/Kg	0.10	0.10	-	1.00	
75-71-8	DICHLORODIFLUOROMETHANE	ND		ug/Kg	0.10	0.10	-	1.00	
60-29-7	DIETHYL ETHER	ND		mg/Kg	0.125	0.125	-	1.00	
141-78-6	ETHYL ACETATE	ND		mg/Kg	0.10	0.10	-	1.00	
97-63-2	ETHYL METHACRYLATE	ND		mg/Kg	0.10	0.10	-	1.00	
100-41-4	ETHYLBENZENE	ND		ug/Kg	0.10	0.10	-	1.00	
108-93-4	ETHYLENE DIBROMIDE (EDB)	ND		ug/Kg	0.10	0.10	-	1.00	
87-68-3	HEXACHLOROBUTADIENE	ND		ug/Kg	0.10	0.10	-	1.00	
67-72-1	HEXACHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
98-82-8	ISOPROPYLBENZENE	ND		ug/Kg	0.10	0.10	-	1.00	
126-98-7	METHACRYLONITRILE	ND		mg/Kg	0.10	0.10	-	1.00	
98-33-3	METHYL ACRYLATE	ND		mg/Kg	0.10	0.10	-	1.00	
74-88-4	METHYL IODIDE	ND		mg/Kg	0.10	0.10	-	1.00	
80-62-6	METHYL METHACRYLATE	ND		mg/Kg	0.25	0.25	-	1.00	
1634-04-4	METHYL TERT-BUTYL ETHER	ND		ug/Kg	1.25	1.25	-	1.00	
75-09-2	METHYLENE CHLORIDE	ND		ug/Kg	1.25	1.25	-	1.00	
104-51-8	N - BUTYLBENZENE	ND		ug/Kg	0.10	0.10	-	1.00	
103-65-1	N - PROPYLBENZENE	ND		ug/Kg	0.10	0.10	-	1.00	
91-20-3	NAPHTHALENE	ND		ug/Kg	0.10	0.10	-	1.00	
99-87-6	P - ISOPROPYLTOLUENE	ND		ug/Kg	0.10	0.10	-	1.00	
76-01-7	PENTACHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	•
135-98-8	SEC - BUTYLBENZENE	ND		ug/Kg	0.10	0.10	-	1.00	
100-42-5	STYRENE	ND		ug/Kg	0.10	0.10	-	1.00	
	T - 1,2 - DICHLOROETHYLENE	ND		ug/Kg	0.10	0.10	-	1.00	
98-06-6	TERT - BUTYLBENZENE	ND		ug/Kg	0.10	0.10	•	1.00	
127-18-4	TETRACHLOROETHYLENE	ND		ug/Kg	0.025	0.025	•	1.00	
109-99-9	TETRAHYDROFURAN	ND		mg/Kg	0.5	0.5	-	1.00	
108-88-3	TOLUENE	ND		ug/Kg	0.10	0.10	-	1.00	
10061-02-	TRANS- 1,3 - DICHLOROPROPENE	ND		ug/Kg	0.10	0.10	-	1.00	
79-01-6	TRICHLOROETHYLENE	ND		ug/Kg	0.025	0.025	-	1.00	
75-69-4	TRICHLOROFLUOROMETHANE	ND		ug/Kg	0.10	0.10	•	1.00	
75-01-4	VINYL CHLORIDE	ND		ug/Kg	0.10	0.10	-	1.00	
1330-20-7	XYLENES	ND		mg/Kg	0.10	0.10	-	1.00	

_4		
	23	

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet. ND - indicates the compound was not detected above the PQL or MDL.

LABORATORIES

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine taboratory operating conditions.

D.F. - Dilution Factor.



Burlington WA Corporate Office 1620 S Walnut St - 98233 Bellingham WA

1620 S Walnut St - 98233 800.755.9295 = 360.757.1400 360.671.0688

Portland OR Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682 7602

WSDOE Lab C1251

DATA REPORT

Page 1 of 2

Client Name: NW HydroGeo Consultants

Reference Number: 11-11910

1941 Lake Whatcom Blvd B3 #113

Project: 2K 1004-1 Conway Feed

Bellingham, WA 98229

Report Date: 8/19/11
Date Analyzed: 8/15/11

Field ID: 8-01-B
Sample Description: Remediation Field

Analyst: HY
Peer Review:

Matrix: Soil Sample Date: 8/1/11

Lab Number: 26092

Analytical Method: 8260B

Extraction Date: 8/15/11
Extraction Method: 5030B

Batch: 8260S_110815

	CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	75-34-3	1,1 - DICHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
1	75-35-4	1,1 - DICHLOROETHYLENE	ND		mg/Kg	0.10	0.10	-	1.00	
	563-58-6	1,1 - DICHLOROPROPENE	ND		mg/Kg	0.10	0.10	-	1,00	
,	71-55-6	1,1,1 - TRICHLOROETHANE	ND		mg/Kg	0.025	0.025	-	1.00	
	630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		mg/Kg	0.10	0.10	•	1.00	₁₁ 1
1	79-00-5	1,1,2 - TRICHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	r
-	79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
	106-93-4	1,2 - DIBROMOETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
1	95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		mg/Kg	0.10	0.10	-	1.00	
	107-06-2	1,2 - DICHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
	78-87-5	1,2 - DICHLOROPROPANE	ND		лу/Ку	0.10	0.10	-	1.00	1
-,	87-61-6	1,2,3 - TRICHLOROBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	1
	96-18-4	1,2,3 - TRICHLOROPROPANE	ND		mg/Kg	0.10	0.10	-	1.00	
-	120-82-1	1,2,4 - TRICHLOROBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	
	95-63-6	1,2,4 - TRIMETHYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	
,	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		mg/Kg	0.10	0.10	-	1.00	
1	541-73-1	1,3 - DICHLOROBENZENE (meta)	ND		mg/Kg	0.10	0.10	-	1,00	
	142-28-9	1,3 - DICHLOROPROPANE	ND		mg/Kg	0.10	0.10	-	1.00	
_,	108-67-8	1,3,5 - TRIMETHYLBENZENE	ND		mg/Kg	0.10	0.10	~	1.00	
ì	110-57-6	1,4 - DICHLORO-2-BUTENE	ND		mg/Kg	0.25	0.25	-	1.00	
1	106-46-7	1,4 - DICHLOROBENZENE (para)	ND		mg/Kg	0.10	0.10	-	1.00	
	109-69-3	1-CHLOROBUTANE	ND		mg/Kg	0.10	0.10	-	1.00	
	594-20-7	2,2 - DICHLOROPROPANE	ND		mg/Kg	0.10	0.10	-	1.00	
-	78-93-3	2-BUTANONE (MEK)	ND		mg/Kg	1.25	1.25	-	1.00	
	591-78-6	2-HEXANONE	ND		mg/Kg	0.5	0.5	-	1.00	
-	79-46-9	2-NITROPROPANE	ND		mg/Kg	0.5	0.5	-	1.00	
	108-10-1	4-METHYL-2-PENTANONE	ND		mg/Kg	0.125	0.125	-	1.00	•
1	67-64-1	ACETONE	ND		mg/Kg	0.5	0.5	-	1.00	
	107-13-1	ACRYLONITRILE	ND		mg/Kg	0.10	0.10	-	1.00	
1	107-05-1	ALLYL CHLORIDE	ND		mg/Kg	0.10	0.10	-	1.00	
j	71-43-2	BENZENE	ND		mg/Kg	0.025	0.025	-	1.00	
	108-86-1	BROMOBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	

Notes

ND - indicates the compound was not detected above the PQL or MDL.

D.F. - Dilution Factor.

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

PQL = Practical Quantitation Limit is the lowest level that can be exhleved within specified limits of precision and accuracy during routine laboratory operating conditions.



Reference Number: 11-11910

Page 2 of 2

Lab Number:	26092
Report Date:	8/19/11

74-87-5 BROMOCHLOROMETHANE ND	CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
77-62-2 BROMOFORM	74-97-5	BROMOCHLOROMETHANE	ND		mg/Kg	0.10	0.10	_	1.00	
7-48-19 BROMOMETHANE ND mg/kg 0.50 0.50 - 1.00 7-51-50 CARBON DISULFIDE ND mg/kg 0.10 0.10 - 1.00 8-23-5 CARBON TETRACHLORIDE ND mg/kg 0.10 0.10 - 1.00 100-9-7 CHLOROGENZENE ND mg/kg 0.10 0.10 - 1.00 100-9-7 CHLOROGENZENE ND mg/kg 0.10 0.10 - 1.00 7-50-93 CHLOROGENZENE ND mg/kg 0.10 0.10 - 1.00 7-60-93 CHLOROGENZENE ND mg/kg 0.10 0.10 - 1.00 1-60-93 CHLOROGENTANE ND mg/kg 0.10 0.10 - 1.00 1-60-94 CHLOROGENTANE ND mg/kg 0.10 0.10 - 1.00 1-60-95 HZACHLOROGENTANE ND mg/kg	75-27-4	BROMODICHLOROMETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
27-91-9 CARBON DISULFIDE	75-25-2	BROMOFORM	ND		mg/Kg	0.10	0.10	-	1.00	
58-22.5 CARBON TETRACHLORIDE ND mg/kg 0.10 0.10 1.00	74-83-9	BROMOMETHANE	ND		mg/Kg	0.50	0.50	-	1.00	•
108-90-7 CHLOROBENZENE	75-15-0	CARBON DISULFIDE	ND		mg/Kg	0.10	0.10	-	1.00	
124-46-1 CHLORODIBROMOMETHANE ND	56-23-5	CARBON TETRACHLORIDE	ND		mg/Kg	0.10	0.10	-	1.00	
The Color of the	108-90-7	CHLOROBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	
ST-88-3	124-48-1	CHLORODIBROMOMETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
T4-8F-3	75-00-3	CHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
198-99-2 CIS - 1,2 - DICHLOROPETHYLENE ND mg/kg 0.10 0.10 - 1.00	67-66-3	CHLOROFORM	ND		mg/Kg	0.10	0.10	-	1.00	
10061-01	74-87-3	CHLOROMETHANE	ND		mg/Kg	0.125	0.125	-	1.00	·
T4-98-3 DIBROMOMETHANE ND	156-59-2	CIS - 1,2 - DICHLOROETHYLENE	ND		mg/Kg	0.10	0.10	-	1.00	
100 100	10061-01-	CIS - 1,3 - DICHLOROPROPENE	ND		mg/Kg	0.10	0.10	-	1.00	
DIETHYL ETHER	74-95-3	DIBROMOMETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
141-76-6	75-71-8	DICHLORODIFLUOROMETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
97-63-2 ETHYL METHACRYLATE ND mg/kg 0.10 0.10 - 1.00 106-93-4 ETHYLBENZENE ND mg/kg 0.10 0.10 - 1.00 106-93-4 ETHYLENE DIBROMIDE (EDB) ND mg/kg 0.10 0.10 - 1.00 187-83-3 HEXACHLOROBUTADIENE ND mg/kg 0.10 0.10 - 1.00 187-21-1 HEXACHLOROBUTADIENE ND mg/kg 0.10 0.10 - 1.00 187-21-1 HEXACHLOROBUTADIENE ND mg/kg 0.10 0.10 - 1.00 189-82-8 ISOPROPYLBENZENE ND mg/kg 0.10 0.10 - 1.00 1828-93-7 METHACRYLONITRILE ND mg/kg 0.10 0.10 - 1.00 189-33-3 METHAL ACRYLATE ND mg/kg 0.10 0.10 - 1.00 189-33-3 METHYL ACRYLATE ND mg/kg 0.10 0.10 - 1.00 180-42-8 METHYL NETHACRYLATE ND mg/kg 0.10 0.10 - 1.00 180-40-4 METHYL IODIDE ND mg/kg 0.10 0.10 - 1.00 180-40-4 METHYL ETHACRYLATE ND mg/kg 0.10 0.10 - 1.00 180-40-4 METHYLENE CHLORIDE ND mg/kg 1.25 1.25 - 1.00 180-40-4 N - BUTYLBENZENE ND mg/kg 0.10 0.10 - 1.00 190-89-2 METHYLENE CHLORIDE ND mg/kg 0.10 0.10 - 1.00 190-89-2 N - PROPYLBENZENE ND mg/kg 0.10 0.10 - 1.00 190-99-20 P - ISOPROPYLTOLUENE ND mg/kg 0.10 0.10 - 1.00 190-99-20 P - ISOPROPYLTOLUENE ND mg/kg 0.10 0.10 - 1.00 190-99-20 P - ISOPROPYLTOLUENE ND mg/kg 0.10 0.10 - 1.00 190-99-30 TERTACHLOROETHYLENE ND mg/kg 0.10 0.10 - 1.00 190-99-30 TERTACHL	60-29-7	DIETHYL ETHER	ND		mg/Kg	0.125	0.125	-	1.00	ı
100-41-4 ETHYLBENZENE	141-78-6	ETHYL ACETATE	ND		mg/Kg	0.10	0.10	-	1.00	1
106-93-4 ETHYLENE DIBROMIDE (EDB) ND mg/kg 0.10 0.10 - 1.00	97-63-2	ETHYL METHACRYLATE	ND		mg/Kg	0.10	0.10	-	1,00	
## ## ## ## ## ## ## ## ## ## ## ## ##	100-41-4	ETHYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	
### ### ##############################	106-93-4	ETHYLENE DIBROMIDE (EDB)	ND		mg/Kg	0.10	0.10	-	1.00	
SOPROPYLBENZENE	87-68-3	HEXACHLOROBUTADIENE	ND		mg/Kg	0.10	0.10	-	1.00	I
126-98-7 METHACRYLONITRILE ND	67-72-1	HEXACHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	1
98-33-3 METHYL ACRYLATE ND mg/kg 0.10 0.10 - 1.00 74-88-4 METHYL IODIDE ND mg/kg 0.25 0.25 - 1.00 80-62-6 METHYL METHACRYLATE ND mg/kg 0.25 0.25 - 1.00 1634-04-4 METHYL TERT-BUTYL ETHER ND mg/kg 1.25 1.25 - 1.00 1634-04-4 METHYL TERT-BUTYL ETHER ND mg/kg 1.25 1.25 - 1.00 104-51-8 N - BUTYLBENZENE ND mg/kg 0.10 0.10 - 1.00 104-51-8 N - PROPYLBENZENE ND mg/kg 0.10 0.10 - 1.00 103-85-1 N - PROPYLBENZENE ND mg/kg 0.10 0.10 - 1.00 91-20-3 NAPHTHALENE ND mg/kg 0.10 0.10 - 1.00 98-87-8 P - ISOPROPYLTOLUENE ND mg/kg 0.10 0.10 - 1.00 135-98-8 SEC - BUTYLBENZENE ND mg/kg 0.10 0.10 - 1.00 135-98-8 SEC - BUTYLBENZENE ND mg/kg 0.10 0.10 - 1.00 166-60-5 T - 1,2 - DICHLOROETHYLENE ND mg/kg 0.10 0.10 - 1.00 156-60-5 T - 1,2 - DICHLOROETHYLENE ND mg/kg 0.10 0.10 - 1.00 127-18-4 TETRACHLOROETHYLENE ND mg/kg 0.10 0.10 - 1.00 109-99-9 TETRAHYDROFURAN ND mg/kg 0.10 0.10 - 1.00 109-99-9 TETRAHYDROFURAN ND mg/kg 0.10 0.10 - 1.00 109-99-9 TETRAHYDROFURAN ND mg/kg 0.10 0.10 - 1.00 109-80-9 TETRAHYDROFURAN ND mg/kg 0.025 0.025 - 1.00 109-80-9 TETRAHYDROFURAN ND mg/kg 0.10 0.10 - 1.00	98-82-8	ISOPROPYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	
74-88-4 METHYL IODIDE ND mg/Kg 0.10 0.10 - 1.00 80-62-6 METHYL METHACRYLATE ND mg/Kg 0.25 0.25 - 1.00 1634-04-4 METHYLENE CHLORIDE ND mg/Kg 1.25 1.25 - 1.00 75-09-2 METHYLENE CHLORIDE ND mg/Kg 1.25 1.25 - 1.00 104-51-8 N - BUTYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 103-85-1 N - PROPYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 99-87-6 P - ISOPROPYLTOLUENE ND mg/Kg 0.10 0.10 - 1.00 98-98-6 P - ISOPROPYLTOLUENE ND mg/Kg 0.10 0.10 - 1.00 99-98-6 P - ISOPROPYLTOLUENE ND mg/Kg 0.10 0.10 - 1.00 100-42-5 STYRENE ND mg/Kg 0.10 0.10 -	126-98-7	METHACRYLONITRILE	ND		mg/Kg	0.10	0.10	-	1.00	٤
80-62-6 METHYL METHACRYLATE ND mg/Kg 0.25 0.25 - 1.00 1634-04-4 METHYL TERT-BUTYL ETHER ND mg/Kg 1.25 1.25 - 1.00 75-09-2 METHYLENE CHLORIDE ND mg/Kg 1.25 1.25 - 1.00 104-51-8 N - BUTYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 103-65-1 N - PROPYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 91-20-3 NAPHTHALENE ND mg/Kg 0.10 0.10 - 1.00 99-87-6 P - ISOPROPYLTOLUENE ND mg/Kg 0.10 0.10 - 1.00 76-01-7 PENTACHLOROETHANE ND mg/Kg 0.10 0.10 - 1.00 135-98-8 SEC - BUTYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 100-42-5 STYRENE ND mg/Kg 0.10 0.10 - 1.00 156-60-5 T - 1,2 - DICHLOROETHYLENE ND mg/Kg 0.10 0.10 - 1.00 127-18-4 TETRACHLOROETHYLENE ND mg/Kg 0.10 0.10 - 1.00 109-99-9 TETRAHYDROFURAN ND mg/Kg 0.025 0.025 - 1.00 109-99-16 TRICHLOROPENE ND mg/Kg 0.10 0.10 - 1.00 10061-02- TRANS-1,3 - DICHLOROPROPENE ND mg/Kg 0.10 0.10 - 1.00 175-69-4 TRICHLOROETHYLENE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00	96-33-3	METHYL ACRYLATE	ND		mg/Kg	0.10	0.10	-	1.00	
1634-04-4 METHYL TERT-BUTYL ETHER ND mg/Kg 1.25 1.25 - 1.00 175-09-2 METHYLENE CHLORIDE ND mg/Kg 1.25 1.25 - 1.00 104-51-8 N - BUTYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 103-65-1 N - PROPYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 103-65-1 N - PROPYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 103-65-1 N- PROPYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 103-65-1 PENTACHLOROETHANE ND mg/Kg 0.10 0.10 - 1.00 103-63-8 P - ISOPROPYLTOLUENE ND mg/Kg 0.10 0.10 - 1.00 104-63-9 SEC - BUTYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 104-63-5 STYRENE ND mg/Kg 0.10 0.10 - 1.00 104-63-5 T - 1,2 - DICHLOROETHYLENE ND mg/Kg 0.10 0.10 - 1.00 105-60-5 T - 1,2 - DICHLOROETHYLENE ND mg/Kg 0.10 0.10 - 1.00 105-90-9 TETRACHLOROETHYLENE ND mg/Kg 0.10 0.10 - 1.00 105-90-9 TETRACHLOROETHYLENE ND mg/Kg 0.025 0.025 - 1.00 105-90-9 TETRACHOROETHYLENE ND mg/Kg 0.10 0.10 - 1.00 106-102- TRANS-1,3 - DICHLOROPROPENE ND mg/Kg 0.10 0.10 - 1.00 106-102- TRANS-1,3 - DICHLOROPROPENE ND mg/Kg 0.10 0.10 - 1.00 175-69-4 TRICHLOROETHYLENE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 175-01-4 VINYL CHLORIDE ND mg/Kg 0.10	74-88-4	METHYL IODIDE	ND		mg/Kg	0.10	0.10	•	1.00	
75-09-2 METHYLENE CHLORIDE ND mg/Kg 1.25 1.25 - 1.00 104-51-8 N - BUTYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 103-65-1 N - PROPYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 99-87-8 P - ISOPROPYLTOLUENE ND mg/Kg 0.10 0.10 - 1.00 76-01-7 PENTACHLOROETHANE ND mg/Kg 0.10 0.10 - 1.00 100-42-5 STYRENE ND mg/Kg 0.10 0.10 - 1.00 156-60-5 T - 1,2 - DICHLOROETHYLENE ND mg/Kg 0.10 0.10 - 1.00 109-80-8 TERT - BUTYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 109-99-9 TETRAHYDROFURAN ND mg/Kg 0.025 0.025 - 1.00 108-8-3 TOLUENE ND mg/Kg 0.10 - 1.00 </td <td>80-62-6</td> <td>METHYL METHACRYLATE</td> <td>ND</td> <td></td> <td>mg/Kg</td> <td>0.25</td> <td>0.25</td> <td>•</td> <td>1.00</td> <td></td>	80-62-6	METHYL METHACRYLATE	ND		mg/Kg	0.25	0.25	•	1.00	
104-51-8 N - BUTYLBENZENE ND	1634-04-4	METHYL TERT-BUTYL ETHER	ND		mg/Kg	1.25	1.25	-	1.00	I
103-65-1 N - PROPYLBENZENE ND	75-09-2	METHYLENE CHLORIDE	ND		mg/Kg	1.25	1.25	-	1.00	
91-20-3 NAPHTHALENE ND mg/kg 0.10 0.10 - 1.00 99-87-6 P - ISOPROPYLTOLUENE ND mg/kg 0.10 0.10 - 1.00 76-01-7 PENTACHLOROETHANE ND mg/kg 0.10 0.10 - 1.00 135-98-8 SEC - BUTYLBENZENE ND mg/kg 0.10 0.10 - 1.00 100-42-5 STYRENE ND mg/kg 0.10 0.10 - 1.00 156-60-5 T - 1,2 - DICHLOROETHYLENE ND mg/kg 0.10 0.10 - 1.00 98-08-8 TERT - BUTYLBENZENE ND mg/kg 0.10 0.10 - 1.00 127-18-4 TETRACHLOROETHYLENE ND mg/kg 0.025 0.025 - 1.00 109-99-9 TETRAHYDROFURAN ND mg/kg 0.5 0.5 - 1.00 108-88-3 TOLUENE ND mg/kg 0.10 0.10 - 1.00 10061-02- TRANS- 1,3 - DICHLOROPROPENE ND mg/kg 0.10 0.10 - 1.00 79-01-6 TRICHLOROETHYLENE ND mg/kg 0.025 0.025 - 1.00 75-69-4 TRICHLOROETHYLENE ND mg/kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/kg 0.10 0.10 - 1.00	104-51-8	N - BUTYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	
99-87-6 P - ISOPROPYLTOLUENE ND mg/kg 0.10 0.10 - 1.00 76-01-7 PENTACHLOROETHANE ND mg/kg 0.10 0.10 - 1.00 135-98-8 SEC - BUTYLBENZENE ND mg/kg 0.10 0.10 - 1.00 100-42-5 STYRENE ND mg/kg 0.10 0.10 - 1.00 156-60-5 T - 1,2 - DICHLOROETHYLENE ND mg/kg 0.10 0.10 - 1.00 98-08-6 TERT - BUTYLBENZENE ND mg/kg 0.10 0.10 - 1.00 127-18-4 TETRACHLOROETHYLENE ND mg/kg 0.025 0.025 - 1.00 109-99-9 TETRAHYDROFURAN ND mg/kg 0.5 0.5 - 1.00 108-88-3 TOLUENE ND mg/kg 0.10 0.10 - 1.00 10061-02- TRANS- 1,3 - DICHLOROPROPENE ND mg/kg 0.10 0.10 - 1.00 79-01-6 TRICHLOROETHYLENE ND mg/kg 0.025 0.025 - 1.00 75-69-4 TRICHLOROFTHORE ND mg/kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/kg 0.10 0.10 - 1.00	103-65-1	N - PROPYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	Į.
76-01-7 PENTACHLOROETHANE ND mg/kg 0.10 0.10 - 1.00 135-98-8 SEC - BUTYLBENZENE ND mg/kg 0.10 0.10 - 1.00 100-42-5 STYRENE ND mg/kg 0.10 0.10 - 1.00 156-60-5 T - 1,2 - DICHLOROETHYLENE ND mg/kg 0.10 0.10 - 1.00 98-06-8 TERT - BUTYLBENZENE ND mg/kg 0.10 0.10 - 1.00 127-18-4 TETRACHLOROETHYLENE ND mg/kg 0.025 0.025 - 1.00 109-99-9 TETRAHYDROFURAN ND mg/kg 0.5 0.5 - 1.00 108-88-3 TOLUENE ND mg/kg 0.10 0.10 - 1.00 10061-02- TRANS- 1,3 - DICHLOROPROPENE ND mg/kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLOROFLUOROMETHANE ND mg/kg 0.10 0.10	91-20-3	NAPHTHALENE	ND		mg/Kg	0.10	0.10	-	1.00	
135-98-8 SEC - BUTYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 100-42-5 STYRENE ND mg/Kg 0.10 0.10 - 1.00 156-60-5 T - 1,2 - DICHLOROETHYLENE ND mg/Kg 0.10 0.10 - 1.00 98-08-8 TERT - BUTYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 127-18-4 TETRACHLOROETHYLENE ND mg/Kg 0.025 0.025 - 1.00 109-99-9 TETRAHYDROFURAN ND mg/Kg 0.5 0.5 - 1.00 108-88-3 TOLUENE ND mg/Kg 0.10 0.10 - 1.00 10061-02- TRANS- 1,3 - DICHLOROPROPENE ND mg/Kg 0.10 0.10 - 1.00 79-01-8 TRICHLOROETHYLENE ND mg/Kg 0.025 0.025 - 1.00 75-69-4 TRICHLOROFLUOROMETHANE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00	99-87-6				mg/Kg	0.10	0.10	-	1.00	r I
100-42-5 STYRENE	76-01 - 7				mg/Kg	0.10	0.10	-	1.00	į
156-60-5 T - 1,2 - DICHLOROETHYLENE ND mg/Kg 0.10 0.10 - 1.00 98-08-8 TERT - BUTYLBENZENE ND mg/Kg 0.10 0.10 - 1.00 127-18-4 TETRACHLOROETHYLENE ND mg/Kg 0.025 0.025 - 1.00 109-99-9 TETRAHYDROFURAN ND mg/Kg 0.5 0.5 - 1.00 108-88-3 TOLUENE ND mg/Kg 0.10 0.10 - 1.00 10061-02- TRANS- 1,3 - DICHLOROPROPENE ND mg/Kg 0.10 0.10 - 1.00 79-01-8 TRICHLOROETHYLENE ND mg/Kg 0.025 0.025 - 1.00 75-69-4 TRICHLOROFLUOROMETHANE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00	135-98-8				mg/Kg			-	1.00	
98-08-8 TERT - BUTYLBENZENE ND mg/kg 0.10 0.10 - 1.00 127-18-4 TETRACHLOROETHYLENE ND mg/kg 0.025 0.025 - 1.00 109-99-9 TETRAHYDROFURAN ND mg/kg 0.5 0.5 - 1.00 108-88-3 TOLUENE ND mg/kg 0.10 0.10 - 1.00 10061-02- TRANS- 1,3 - DICHLOROPROPENE ND mg/kg 0.10 0.10 - 1.00 79-01-8 TRICHLOROETHYLENE ND mg/kg 0.025 0.025 - 1.00 75-69-4 TRICHLOROFLUOROMETHANE ND mg/kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/kg 0.10 0.10 - 1.00	100-42-5				mg/Kg			-	1.00	
127-18-4 TETRACHLOROETHYLENE ND mg/Kg 0.025 0.025 - 1,00 109-99-9 TETRAHYDROFURAN ND mg/Kg 0.5 0.5 - 1,00 108-88-3 TOLUENE ND mg/Kg 0.10 0.10 - 1,00 10061-02- TRANS- 1,3 - DICHLOROPROPENE ND mg/Kg 0.10 0.10 - 1,00 79-01-8 TRICHLOROETHYLENE ND mg/Kg 0.025 0.025 - 1,00 75-69-4 TRICHLOROFLUOROMETHANE ND mg/Kg 0.10 0.10 - 1,00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1,00		•			mg/Kg			-	1.00	
109-99-9 TETRAHYDROFURAN ND mg/Kg 0.5 0.5 - 1.00 108-88-3 TOLUENE ND mg/Kg 0.10 0.10 - 1.00 10061-02- TRANS- 1,3 - DICHLOROPROPENE ND mg/Kg 0.10 0.10 - 1.00 79-01-6 TRICHLOROETHYLENE ND mg/Kg 0.025 0.025 - 1.00 75-69-4 TRICHLOROFLUOROMETHANE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00	98-06-6				mg/Kg			-	1.00	
108-88-3 TOLUENE ND mg/Kg 0.10 0.10 - 1.00 10061-02- TRANS- 1,3 - DICHLOROPROPENE ND mg/Kg 0.10 0.10 - 1.00 79-01-8 TRICHLOROETHYLENE ND mg/Kg 0.025 0.025 - 1.00 75-69-4 TRICHLOROFLUOROMETHANE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00	127-18-4				mg/Kg			-	1.00	
10061-02- TRANS- 1,3 - DICHLOROPROPENE ND mg/Kg 0.10 0.10 - 1.00 79-01-6 TRICHLOROETHYLENE ND mg/Kg 0.025 0.025 - 1.00 75-69-4 TRICHLOROFLUOROMETHANE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00	109-99-9				mg/Kg			-	1.00	1
79-01-8 TRICHLOROETHYLENE ND mg/Kg 0.025 0.025 - 1.00 75-69-4 TRICHLOROFLUOROMETHANE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINUL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00								-	1.00	
75-69-4 TRICHLOROFLUOROMETHANE ND mg/Kg 0.10 0.10 - 1.00 75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00		•			mg/Kg			-	1.00	
75-01-4 VINYL CHLORIDE ND mg/Kg 0.10 0.10 - 1.00					mg/Kg			-	1.00	
10/1 E1/150					mg/Kg			-	1.00	
1330-20-7 XYLENES ND mg/kg 0.10 0.10 - 1.00					mg/Kg			-	1.00	!
	1330-20-7	XYLENES	ND		mg/Kg	0.10	0.10	-	1.00	

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet. ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions. D.F. - Dilution Factor.



1620 S Watnut St - 98233

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 800,755,9295 • 360,757 1400 260 671 0688

Portland OR Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682 7802

WSDOE Lab C1251

DATA REPORT

Page 1 of 2

Client Name: NW HydroGeo Consultants Reference Number: 11-11910

Project: 2K 1004-1 Conway Feed

Bellingham, WA 98229

1941 Lake Whatcom Blvd B3 #113

Lab Number: 26091

Field ID: 8-01-A

Sample Description: Remediation Field

Matrix: Soil Sample Date: 8/1/11

Extraction Date: 8/15/11 Extraction Method: 5030B

Report Date: 8/19/11 Date Analyzed: 8/15/11 Analyst: HY Peer Review: Fem Analytical Method: 8260B

Batch: 8260S_110815

	CAS	Compound	RESULT	Flag	UNITS	PQL	MRL.	MDL.	D.F.	COMMENT
	75-34-3	1,1 - DICHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
}	75-35-4	1,1 - DICHLOROETHYLENE	ND		mg/Kg	0.10	0.10	-	1.00	
	563-58-6	1,1 - DICHLOROPROPENE	ND		mg/Kg	0.10	0.10	-	1.00	
	71-55-6	1,1,1 - TRICHLOROETHANE	ND		mg/Kg	0.025	0.025	_	1,00	
	630-20-6	1,1,1,2 - TETRACHLOROETHANE	ND		mg/Kg	0.10	0.10	_	1.00	
l I	79-00-5	1,1,2 - TRICHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
1	79-34-5	1,1,2,2 - TETRACHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
	106-93-4	1,2 - DIBROMOETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
į.	95-50-1	1,2 - DICHLOROBENZENE (ortho)	ND		mg/Kg	0.10	0.10	-	1.00	
ļ	107-06-2	1,2 - DICHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00	
	78-87-5	1,2 - DICHLOROPROPANE	ND		mg/Kg	0.10	0.10	-	1.00	
į	87-61-6	1,2,3 - TRICHLOROBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	
, 	96-18-4	1,2,3 - TRICHLOROPROPANE	ND		mg/Kg	0.10	0.10	-	1.00	
	120-82-1	1,2,4 - TRICHLOROBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	
	95-63-6	1,2,4 - TRIMETHYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	
1	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND		mg/Kg	0.10	0.10	-	1.00	
	541-73-1	1,3 - DICHLOROBENZENE (meta)	ND		mg/Kg	0.10	0.10	-	1.00	
	142-28-9	1,3 - DICHLOROPROPANE	ND		mg/Kg	0.10	0.10	-	1.00	
	108-67-8	1,3,5 - TRIMETHYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	
F	110-57-6	1,4 - DICHLORO-2-BUTENE	ND		mg/Kg	0.25	0.25	-	1.00	
	108-46-7	1,4 - DICHLOROBENZENE (para)	ND		rng/Kg	0.10	0.10	-	1.00	
	109-69-3	1-CHLOROBUTANE	ND		mg/Kg	0.10	0.10	-	1.00	
ı	594-20-7	2,2 - DICHLOROPROPANE	ND		mg/Kg	0.10	0.10	-	1.00	
1	78-93-3	2-BUTANONE (MEK)	ND		mg/Kg	1.25	1.25	-	1.00	
	591-78-6	2-HEXANONE	ND		mg/Kg	0.5	0.5	-	1.00	
,	79-46-9	2-NITROPROPANE	ND		mg/Kg	0.5	0.5	-	1.00	
1	108-10-1	4-METHYL-2-PENTANONE	ND		mg/Kg	0.125	0.125	-	1.00	
:	67-64-1	ACETONE	ND		mg/Kg	0.5	0.5	-	1.00	
	107-13-1	ACRYLONITRILE	ND		mg/Kg	0.10	0.10	-	1.00	
ļ	107-05-1	ALLYL CHLORIDE	ND		mg/Kg	0.10	0.10	-	1.00	
	71-43-2	BENZENE	ND		mg/Kg	0.025	0.025	-	1.00	
	108-86-1	BROMOBENZENE	ND		mg/Kg	0.10	0.10	-	1.00	

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - Indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.



Reference Number: 11-11910

Lab Number: 26091 Report Date: 8/19/11

Page 2 of 2

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT	
74-97-5	BROMOCHLOROMETHANE	ND		mg/Kg	0.10	0.10	-	1.00		
75-27-4	BROMODICHLOROMETHANE	ND		mg/Kg	0.10	0.10	-	1.00		
75-25-2	BROMOFORM	ND		mg/Kg	0.10	0.10	-	1.00		ł
74-83-9	BROMOMETHANE	ND		mg/Kg	0.50	0.50	-	1.00		i
75-15-0	CARBON DISULFIDE	ND		mg/Kg	0.10	0.10	-	1.00		<i>r</i> =
56-23-5	CARBON TETRACHLORIDE	ND		mg/Kg	0.10	0.10	-	1.00		Ï
108-90-7	CHLOROBENZENE	ND		mg/Kg	0.10	0.10	-	1.00		i,
124-48-1	CHLORODIBROMOMETHANE	ND		mg/Kg	0.10	0.10	-	1.00		
75-00-3	CHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00		-
67-66-3	CHLOROFORM	ND		mg/Kg	0.10	0.10	-	1.00		
74-87-3	CHLOROMETHANE	ND		mg/Kg	0.125	0.125	-	1.00		
156-59-2	CIS - 1,2 - DICHLOROETHYLENE	ND		mg/Kg	0.10	0.10	-	1.00		(
10061-01-	CIS - 1,3 - DICHLOROPROPENE	ND		mg/Kg	0.10	0.10	-	1.00		
74-95-3	DIBROMOMETHANE	ND		mg/Kg	0.10	0.10	•	1.00		į.
75-71-8	DICHLORODIFLUOROMETHANE	ND		mg/Kg	0.10	0.10	-	1.00		
60-29-7	DIETHYL ETHER	ND		mg/Kg	0.125	0.125	-	1.00		1
141-78-6	ETHYL ACETATE	ND		mg/Kg	0.10	0.10	-	1.00		
97-63-2	ETHYL METHACRYLATE	ND		mg/Kg	0.10	0.10	-	1.00		
100-41-4	ETHYLBENZENE	ND		mg/Kg	0.10	0.10	•	1.00		
106-93-4	ETHYLENE DIBROMIDE (EDB)	ND		mg/Kg	0.10	0.10	-	1.00		
87-68-3	HEXACHLOROBUTADIENE	ND		mg/Kg	0.10	0.10	-	1.00		
67-72-1	HEXACHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00		
98-82-8	ISOPROPYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00		
126-98-7	METHACRYLONITRILE	ИÐ		mg/Kg	0.10	0.10	-	1,00		1
98-33-3	METHYL ACRYLATE	ND		mg/Kg	0.10	0.10	-	1.00		
74-88-4	METHYL IODIDE	ND		mg/Kg	0.10	0.10	-	1.00		-
80-62-6	METHYL METHACRYLATE	ND		mg/Kg	0.25	0.25	-	1.00		1
1634-04-4	METHYL TERT-BUTYL ETHER	ND		mg/Kg	1.25	1.25	-	1.00		
75-09-2	METHYLENE CHLORIDE	ND		mg/Kg	1.25	1.25	-	1.00		
104-51-8	N - BUTYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00		
103-65-1	N - PROPYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00		
91-20-3	NAPHTHALENE	ND		mg/Kg	0.10	0.10	-	1.00		
99-87-6	P - ISOPROPYLTOLUENE	ND		mg/Kg	0.10	0.10	-	1.00		Г
76-01-7	PENTACHLOROETHANE	ND		mg/Kg	0.10	0.10	-	1.00		i
135-98-8	SEC - BUTYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00		_
100-42-5	STYRENE	ND		mg/Kg	0.10	0.10	-	1,00		
158-60-5	T - 1,2 - DICHLOROETHYLENE	ND		mg/Kg	0.10	0.10	-	1.00		i 1
98-06-6	TERT - BUTYLBENZENE	ND		mg/Kg	0.10	0.10	-	1.00		·
127-18-4	TETRACHLOROETHYLENE	ND		mg/Kg	0.025	0.025	-	1.00		
109-99-9	TETRAHYDROFURAN	ND		mg/Kg	0.5	0.5	-	1.00		1
108-88-3	TOLUENE	ND		mg/Kg	0.10	0.10	-	1.00		
10061-02-	TRANS- 1,3 - DICHLOROPROPENE	ND		mg/Kg	0.10	0.10	-	1.00		'-
79-01-6	TRICHLOROETHYLENE	ND		mg/Kg	0.025	0.025	_	1.00		
75-69-4	TRICHLOROFLUOROMETHANE	ND		mg/Kg	0.10	0.10	-	1.00		
75-01-4	VINYL CHLORIDE	ND		mg/Kg	0.10	0.10	•	1.00		,
1330-20-7	XYLENES	ND		mg/Kg	0.10	0.10	-	1.00		
										1

F----

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet. ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800 755 9295 • 360 757 1400 360 671 0688

9150 SW Proneer Ct Ste W- 97070 503 682 7802

Page 1 of 8



SAMPLE INDEPENDENT **QUALITY CONTROL REPORT**

Laboratory Fortified Blank

Reference Number: 11-11910

			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
6010B-110804B	LEAD	0.9	1	mg/L	6010B	90	70-130	LFB	
00000 440045	4.4 BIOW ODOSTIVANS		4			00			
8260S_110815	1,1 - DICHLOROETHANE	0.9	1	mg/Kg	8260B	90	60-140	LFB	
	1,1 - DICHLOROETHYLENE	1.0	1	mg/Kg	8260B	100	60-140		
	1,1 - DICHLOROPROPENE	0.9	1	mg/Kg	8260B	90	60-140		
	1,1,1 - TRICHLOROETHANE	0.9	1	mg/Kg	8260B	90	60-140		
	1,1,1,2 - TETRACHLOROETHANE	1.0	1	mg/Kg	8260B	100	60-140		
	1,1,2 - TRICHLOROETHANE	0.9	1	mg/Kg	8260B	90	60-140		
	1,1,2,2 - TETRACHLOROETHANE	1.0	1	mg/Kg	8260B	100	60-140		
	1,2 - DICHLOROBENZENE (ortho)	1.0	1	mg/Kg	8260B	100	60-140		
	1,2 - DICHLOROETHANE	0.9	1	mg/Kg	8260B	90	60-140		
	1,2 - DICHLOROETHANE-d4 (SURR)	100		%	8260B		70-130		
	1,2 - DICHLOROPROPANE	0.9	1	mg/Kg	8260B	90	60-140		
	1,2,3 - TRICHLOROBENZENE	0.8	1	mg/Kg	82608	80	60-140		
	1,2,3 - TRICHLOROPROPANE	1.1	1	mg/Kg	8260B	110	60-140		
	1,2,4 - TRICHLOROBENZENE	8.0	1	mg/Kg	8260B	80	60-140		
	1,2,4 - TRIMETHYLBENZENE	8.0	1	mg/Kg	8260B	80	60-140		
	1,2-DIBROMO-3-CHLOROPROPANE	1.0	1	mg/Kg	8260B	100	60-140		
	1,3 - DICHLOROBENZENE (meta)	0.9	1	mg/Kg	8260B	90	60-140		
	1,3 - DICHLOROPROPANE	0.9	1	mg/Kg	8260B	90	60-140		
	1,3,5 - TRIMETHYLBENZENE	0.9	1	mg/Kg	8260B	90	60-140		
	1,4 - DICHLORO-2-BUTENE	2.9	2.5	mg/Kg	8260B	116	60-140		
	1,4 - DICHLOROBENZENE (para)	0.9	1	mg/Kg	8260B	90	60-140		
	1-CHLOROBUTANE	2.2	2.5	mg/Kg	8260B	88	60-140		
	2,2 - DICHLOROPROPANE	0.9	1	mg/Kg	8260B	90	60-140		
	2-BUTANONE (MEK)	2.4	2.5	mg/Kg	8260B	96	60-140		
	2-HEXANONE	3.1	2.5	mg/Kg	8260B	124	60-140		
	2-NITROPROPANE	3.2	2.5	mg/Kg	8260B	128	60-140		
	4-BROMOFLUOROBENZENE (Surr)	111		%	8260B		80-120		
	4-METHYL-2-PENTANONE	2.2	2.5	mg/Kg	82608	88	60-140		
	ACETONE	2.1	2.5	mg/Kg	8260B	84	60-140		
	ACRYLONITRILE	3.7	5	mg/Kg	8260B		60-140		
	ALLYL CHLORIDE	2.7	2.5	mg/Kg	8260B	108	60-140		
	BENZENE	0.9	1	mg/Kg	8260B	90	60-140		
	BROMOBENZENE	1.0	1	mg/Kg	8260B	100	60-140		
	BROMOCHLOROMETHANE	1.0	1			100			
	DRONOUNE I HANG	1.0	•	mg/Kg	8260B	100	60-140		

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walnut St - 98233

800 755.9295 • 360,757 1400

Bellingham WA Microbiology

360.671 0688

Portland OR Microbiology/Chemistry

605 Orenard Dr Ste 4 - 98225 9150 SW Proneer Ct Ste W- 97070 503 582 7802

Page 2 of 8



Laboratory Fortified Blank

Reference Number: 11-11910

			True			%		QC		
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment	
8260S_110815	BROMODICHLOROMETHANE	0.9	1	mg/Kg	8260B	90	60-140	LFB		
	BROMOFORM	1.0	1	mg/Kg	8260B	100	60-140			
	BROMOMETHANE	1.1	1	mg/Kg	8260B	110	60-140			
	CARBON DISULFIDE	3.2	2.5	mg/Kg	8260B	128	60-140			
	CARBON TETRACHLORIDE	0.9	1	mg/Kg	8260B	90	60-140			
	CHLOROBENZENE	1.0	1	mg/Kg	8260B	100	60-140			
	CHLORODIBROMOMETHANE	1.0	1	mg/Kg	8260B	100	60-140			
	CHLOROETHANE	0.9	1	mg/Kg	8260B	90	60-140			
	CHLOROFORM	0.9	1	mg/Kg	8260B	90	60-140			
	CHLOROMETHANE	1.1	1	mg/Kg	8260B	110	60-140			
	CIS - 1,2 - DICHLOROETHYLENE	0.9	1	mg/Kg	8260B	90	60-140			
	CIS - 1,3 - DICHLOROPROPENE	0.9	1	mg/Kg	8260B	90	60-140			
	d8-TOLUENE (Surr)	99		%	8260B					
	DIBROMOMETHANE	0.9	1	mg/Kg	8260B	90	60-140			
	DICHLORODIFLUOROMETHANE	0.9	1	mg/Kg	8260B	90	60-140			
	DIETHYL ETHER	2.2	2.5	mg/Kg	8260B	88	60-140			
	ETHYL METHACRYLATE	2.7	2.5	mg/Kg	8260B	108	60-140			
	ETHYLBENZENE	1.0	1	mg/Kg	8260B	100	60-140			
	ETHYLENE DIBROMIDE (EDB)	0.9	1	mg/Kg	8260B	90	60-140			
	HEXACHLOROBUTADIENE	0.9	1	mg/Kg	8260B	90	60-140			
	HEXACHLOROETHANE	3.0	2.5	mg/Kg	8260B	120	60-140			
	ISOPROPYLBENZENE	1.0	1	mg/Kg	8260B	100	60-140			
	METHACRYLONITRILE	2.2	2.5	mg/Kg	8260B	88	60-140			
	METHYL ACRYLATE	2.3	2.5	mg/Kg	8260B	92	60-140			
	METHYL IODIDE	2.3	2.5	mg/Kg	8260B	92	60-140			
	METHYL METHACRYLATE	2.9	2.5	mg/Kg	8260B	116	60-140			
	METHYL TERT-BUTYL ETHER	0.9	1	mg/Kg	8260B	90	60-140			
	METHYLENE CHLORIDE	0.9	1	mg/Kg	8260B	90	60-140			
	N - BUTYLBENZENE	0.7	1	mg/Kg	8260B	70	60-140			
	N - PROPYLBENZENE	0.9	1	mg/Kg	8260B	90	60-140			
	NAPHTHALENE	8.0	1	mg/Kg	8260B	80	60-140			į
	P - ISOPROPYLTOLUENE	0.8	1	mg/Kg	8260B	80	60-140			ļ
	PENTACHLOROETHANE	2.5	2.5	mg/Kg	8260B	100	60-140			
	SEC - BUTYLBENZENE	0.9	1	mg/Kg	8260B	90	60-140			
	STYRENE	1.0	1	mg/Kg	8260B	100	60-140			
	T - 1,2 - DICHLOROETHYLENE	0.9	1	mg/Kg	8260B	90	60-140			
	TERT - BUTYLBENZENE	0.9	1	mg/Kg	8260B	90	60-140			

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA

A Portland OR
Microbiology/Chemstry

1620 S Walnut S1 - 98233 805 Orchard Dr Ste 4 - 98225 9150 SW 800 755 9295 • 360 757.1400 360 671 0688 503 682 7

9150 SW Promeer Ct Ste W- 97070 503 682 7802 Page 3 of 8



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 11-11910

Report Date: 08/19/11

			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
8260S_110815	TETRACHLOROETHYLENE	0.9	1	mg/Kg	8260B	90	60-140	LFB	
	TETRAHYDROFURAN	2.7	2.5	mg/Kg	8260B	108	60-140		
	TOLUENE	0.9	1	mg/Kg	8260B	90	60-140		
	TRANS- 1,3 - DICHLOROPROPENE	0.9	1	mg/Kg	8260B	90	60-140		
	TRICHLOROETHYLENE	1.0	1	mg/Kg	8260B	100	60-140		
	TRICHLOROFLUOROMETHANE	0.9	1	mg/Kg	8260B	90	60-140		
	VINYL CHLORIDE	0.9	1	mg/Kg	8260B	90	60-140		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

 $\ensuremath{\mathsf{NA}} = \ensuremath{\mathsf{Indicates}}$ % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an alliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA

Portland OR Microbiology/Chemistry

1620 S Walnut St 98233 800 755 9295 • 360.757,1400

805 Orchard Dr Ste 4 - 98225 360.671 0688

9150 SW Proneer Ct Ste W- 97070 503.682.7602

Page 4 of 8



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 11-11910

			True			%	QC		
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment	
6010B-110804B	LEAD	ND	-	mg/L	6010B	0.0010	0 LRB		

^{*}Notation

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB; Method Blank or Laboratory Reagent Blank, an allquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

9150 SW Proneer Ct Ste W- 97070 503.682.7802

Page 5 of 8



SAMPLE INDEPENDENT **QUALITY CONTROL REPORT**

Method Blank

Reference Number: 11-11910

			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
6010B-110804B	LEAD	ND		mg/L	6010B		3.12000	MB	
02000 440045	4.4 DIQUI ODOETUANE	ND							
8260S_110815	1,1 - DICHLOROETHANE	ND		mg/Kg	8260B		0.02000		
	1,1 - DICHLOROETHYLENE	ND		mg/Kg	8260B		0.02000		
	1,1 - DICHLOROPROPENE	ND		mg/Kg	8260B		0.02000		
	1,1,1 - TRICHLOROETHANE	ND		mg/Kg	8260B		0.02000		
	1,1,1,2 - TETRACHLOROETHANE	ND		mg/Kg	8260B		0.02000		
	1,1,2 - TRICHLOROETHANE	ND		mg/Kg	8260B		0.02000		
	1,1,2,2 - TETRACHLOROETHANE	ND		mg/Kg	8260B		0.02000		
	1,2 - DICHLOROBENZENE (ortho)	ND		mg/Kg	8260B		0.02000		
	1,2 - DICHLOROETHANE	ND		mg/Kg	8260B		0.02000		
	1,2 - DICHLOROETHANE-d4 (SURR)	103		%	8260B				
	1,2 - DICHLOROPROPANE	ND		mg/Kg	8260B		0.02000		
	1,2,3 - TRICHLOROBENZENE	ND		mg/Kg	8260B		0.02000		
	1,2,3 - TRICHLOROPROPANE	ND		mg/Kg	8260B		0.02000		
	1,2,4 - TRICHLOROBENZENE	ND		mg/Kg	8260B		0.02000		
	1,2,4 - TRIMETHYLBENZENE	ND		mg/Kg	8260B		0.02000		
	1,2-DIBROMO-3-CHLOROPROPANE	ND		mg/Kg	8260B		0.02000		
	1,3 - DICHLOROBENZENE (meta)	ND		mg/Kg	8260B		0.02000		
	1,3 - DICHLOROPROPANE	ND		mg/Kg	82608		0.02000		
	1,3,5 - TRIMETHYLBENZENE	ND		mg/Kg	8260B		0.02000		
	1,4 - DICHLORO-2-BUTENE	ND		mg/Kg	8260B		0.02000		
	1,4 - DICHLOROBENZENE (para)	ND		mg/Kg	8260B		0.02000		
	1-CHLOROBUTANE	ND		mg/Kg	8260B		0.02000		
	2,2 - DICHLOROPROPANE	ND		mg/Kg	8260B		0.02000		
	2-BUTANONE (MEK)	ND		mg/Kg	8260B		0.30000		
	2-HEXANONE	ND		mg/Kg	8260B		0.02000		
	2-NITROPROPANE	ND		mg/Kg	8260B		0.02000		
	4-BROMOFLUOROBENZENE (Surr)	129		%	8260B				
	4-METHYL-2-PENTANONE	ND		mg/Kg	8260B		0.02000		
	ACETONE	ND		mg/Kg	8260B		0.60000	•	
	ACRYLONITRILE	ND		mg/Kg	8260B		0.02000		
	ALLYL CHLORIDE	ND		mg/Kg	8260B		0.02000		
	BENZENE	ND		mg/Kg	8260B		0.02000		
	BROMOBENZENE	ND		mg/Kg	8260B		0.02000		
	BROMOCHLOROMETHANE	ND		mg/Kg	8260B		0.02000		

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an alliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

Microbiology/Chemistry 9150 SW Proneer Ct Ste W- 97070 503.682 7802

Page 6 of 8

Portland OR



SAMPLE INDEPENDENT **QUALITY CONTROL REPORT**

Method Blank

Reference Number: 11-11910

			True			%	QC	'	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment	
8260S_110815	BROMODICHLOROMETHANE	ND		mg/Kg	8260B	0.020			
	BROMOFORM	ND		mg/Kg	8260B	0.020	00		
	BROMOMETHANE	ND		mg/Kg	8260B	0.020	00		
	CARBON DISULFIDE	ND		mg/Kg	8260B	0.020	00		
	CARBON TETRACHLORIDE	ND		mg/Kg	8260B	0.020	00		
	CHLOROBENZENE	ND		mg/Kg	8260B	0.020	00		
	CHLORODIBROMOMETHANE	ND		mg/Kg	8260B	0.020	00		
	CHLOROETHANE	ND		mg/Kg	8260B	0.020	00		
	CHLOROFORM	ND		mg/Kg	8260B	0.020	00		
	CHLOROMETHANE	ND		mg/Kg	8260B	0.020	00		
	CIS - 1,2 - DICHLOROETHYLENE	ND		mg/Kg	8260B	0.020	00		
	CIS - 1,3 - DICHLOROPROPENE	ND		mg/Kg	8260B	0.020	00		
	d8-TOLUENE (Surr)	97		%	8260B				
	DIBROMOMETHANE	ND		mg/Kg	8260B	0.020	00		
	DICHLORODIFLUOROMETHANE	ND		mg/Kg	8260B	0.020	00		
	DIETHYL ETHER	ND		mg/Kg	8260B	0.020	00		
	ETHYL METHACRYLATE	ND		mg/Kg	82608	0.020	, 00		
	ETHYLBENZENE	ND		mg/Kg	8260B	0.0200	00		
	HEXACHLOROBUTADIENE	ND		mg/Kg	8260B	0.0200	00	•	
	HEXACHLOROETHANE	ND		mg/Kg	8260B	0.0200	00		
	ISOPROPYLBENZENE	ND			mg/Kg	8260B	0.0200	00	
	METHACRYLONITRILE	ND		mg/Kg	8260B	0.0200	00		
	METHYL ACRYLATE	ND		mg/Kg	8260B	0.0200	00		
	METHYL IODIDE	ND		mg/Kg	8260B	0.0200	00		
	METHYL METHACRYLATE	ND		mg/Kg	8260B	0.0200	00		
	METHYL TERT-BUTYL ETHER	ND		mg/Kg	8260B	0.0200	00		
	METHYLENE CHLORIDE	ND		mg/Kg	8260B	0.3000	00		
	N - BUTYLBENZENE	ND		mg/Kg	8260B	0.0200	00		
	N - PROPYLBENZENE	ND		mg/Kg	8260B	0.0200	00		
	NAPHTHALENE	ND		mg/Kg	8260B	0.0200	00		
	P - ISOPROPYLTOLUENE	ND		mg/Kg	8260B	0.0200	00		
	PENTACHLOROETHANE	ND		mg/Kg	8260B	0.0200	00		
	SEC - BUTYLBENZENE	ND		mg/Kg	8260B	0.0200	0		
	STYRENE	ND		mg/Kg	8260B	0.0200	10		
	T - 1,2 - DICHLOROETHYLENE	ND		mg/Kg	8260B	0.0200	0		
	TERT - BUTYLBENZENE	ND		mg/Kg	8260B	0.0200	0		
	TETRACHLOROETHYLENE	ИÐ		mg/Kg	8260B	0.0200	0 .		

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 605 Orchard Dr Ste 4 - 98225 800 755.9295 • 360 757 1400 360 671 0688

9150 SW Pioneer Ct Ste W- 97070 503,682,7802 Page 7 of 8



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 11-11910

Report Date: 08/19/11

			True			%	QC		
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment	
8260S_110815	TETRAHYDROFURAN	ND		mg/Kg	8260B	0.0200) MB	-	
	TOLUENE	ND		mg/Kg	8260B	0.02000)		
	TRANS-1,3 - DICHLOROPROPENE	NĐ		mg/Kg	8260B	0.02000)		
	TRICHLOROETHYLENE	ND		mg/Kg	8260B	0.0200)		
	TRICHLOROFLUOROMETHANE	ND		mg/Kg	8260B	0.02000)		
	VINYL CHLORIDE	ND		mg/Kg	8260B	0.02000)		

*Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.



1620 S Walnut St - 98233 800 755.9295 = 360 757 1400

Bellingham WA

805 Orchard Dr Ste 4 - 98225 360 671 0688

Portland OR Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682 7802 Page 8 of 8



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 11-11910

Report Date: 08/19/11

			True			% QC			
Batch	Analyte	Result	Value	Units	Method	Recover	y Limits	Qualifier Type*	Comment
6010B-110804B	LEAD	 0.96	1	mg/L	6010B	96	70-130	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an alliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Burlington WA Corporate Office 1620 S Walnut St - 98233

800.755.9295 • 360.757 1400

Bellingham WA Microbiology

360,671,0688

Portland OR Microbiology/Chemistry



Page 1 of 3

Reference Number: 11-11910

SAMPLE DEPENDENT **QUALITY CONTROL REPORT**

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070

503.682.7802

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Dup	licate
-----	--------

			Duplicate				QC
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
6010B-1108)4B						·
	25284 LEAD	42.3	43.3	mg/Kg	2.3	0-45	DUP
8260S_1108	15						
	26093 4-BROMOFLUOROBENZENE (Surr)	110	84	%	26.8	0-30	DUP
	26093 d8-TOLUENE (Surr)	98	100	%	2.0		DUP
TS_110802							
	26143 TOTAL SOLIDS FOR CALCULATION	15.0	14.8	%	1.3	0-45	DUP



Page 2 of 3

Reference Number: 11-11910

Report Date: 8/19/2011

Matrix Spike

	-				Dupiloai										
Batch	Cam-l-	A		Spike	Spike	Spike			t Recovery				QC		
		Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier	Туре	Comments
6010B-1108		LEAD													
		LEAD	42.3	185	190	161	mg/Kg	89	92	70-130	3.4	0-50		LFM	
8260S_1108															
		1,2-DIBROMO-3-CHLOROPROPANE	ND	1.9		2	ug/Kg	95	NA	60-140	NA	0-60		LFM	
		ETHYLENE DIBROMIDE (EDB)	ND	1.9		2	ug/Kg	95	NA	60-140	NA	0-60		LFM	
		T - 1,2 - DICHLOROETHYLENE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-60		LFM	
		1,1 - DICHLOROETHANE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-60		LFM	
		2,2 - DICHLOROPROPANE	ND	1.1		2	ug/Kg	55	NA	60-140	NA	0-60	LR	LFM	
		CIS - 1,2 - DICHLOROETHYLENE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
		BROMOCHLOROMETHANE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
		CHLOROFORM	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	·
		1,1,1 - TRICHLOROETHANE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-60		LFM	
		1,1 - DICHLOROPROPENE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-60		LFM	
		CARBON TETRACHLORIDE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-60		LFM	
	26093	BENZENE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-60		LFM	
	26093		ND	1.5		2	ug/Kg	75	NA	60-140	NA	0-60		LFM	
		1,2 - DICHLOROETHANE	МD	1.8		2	ug/Kg	90	NA	60-140	NA	0-60	•	LFM	
	26093	TRICHLOROETHYLENE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	1,2 - DICHLOROPROPANE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	DIBROMOMETHANE	ИD	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	BROMODICHLOROMETHANE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	CIS - 1,3 - DICHLOROPROPENE	ND	1.6		2	ug/Kg	80	NA	60-140	NA	0-60		LFM	
	26093	TOLUENE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	TRANS- 1,3 - DICHLOROPROPENE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-60		LFM	
	26093	CHLOROMETHANE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	1,1,2 - TRICHLOROETHANE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	TETRACHLOROETHYLENE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-60		LFM	
	26093	1,3 - DICHLOROPROPANE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	CHLORODIBROMOMETHANE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	CHLOROBENZENE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-60		LFM	
	26093	1,1,1,2 - TETRACHLOROETHANE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	ETHYLBENZENE	ND	1.9		2	ug/Kg	95	NA	60-140	NA	0-60		LFM	
	26093	VINYL CHLORIDE	ND	1.6		2	ug/Kg	80	NA	60-140	NA	0-60		LFM	
	26093	STYRENE	ND	1.8		2	ug/Kg	90	NA -	60-140	NA	0-60		LFM	
	26093	BROMOFORM	ND	2.0		2	ug/Kg	100	NA	60-140	NA.	0-60		LFM	
	26093	ISOPROPYLBENZENE	ND	1.8		2	ug/Kg	90	NA.	60-140	NA.	0-60		LFM	
							55				140			-1.141	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report



Page 3 of 3

Reference Number: 11-11910

Report Date: 8/19/2011

Matrix Spike

Duplicate

				Spike	Spike	Spike		Percen	t Recovery				QC		
Batch	Sample	Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier	Туре	Comments
	26093	1,2,3 - TRICHLOROPROPANE	ND	2.1		2	ug/Kg	105	NA	60-140	NA	0-60		LFM	
	26093	BROMOBENZENE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	1,1,2,2 - TETRACHLOROETHANE	ND	2.0		2	ug/Kg	100	NA	60-140	NA	0-60		LFM	
	26093	N - PROPYLBENZENE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-80		LFM	
	26093	1,3,5 - TRIMETHYLBENZENE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-60		LFM	
	26093	TERT - BUTYLBENZENE	ND	1.6		2	ug/Kg	80	NA	60-140	NA	0-60		LFM	
	26093	1,2,4 - TRIMETHYLBENZENE	ND	1.6		2	ug/Kg	80	NA	60-140	NA	0-60		LFM	
	26093	SEC - BUTYLBENZENE	ND	1.6		2	ug/Kg	80	NA	60-140	NA	0-60		LFM	
	26093	1,3 - DICHLOROBENZENE (meta)	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	P - ISOPROPYLTOLUENE	ND	1.4		2	ug/Kg	70	NA	60-140	NA	0-60		LFM	
	26093	1,4 - DICHLOROBENZENE (para)	ND	1.9		2	ug/Kg	95	NA	60-140	NA	0-60		LFM	
	26093	1,2 - DICHLOROBENZENE (ortho)	ND	1.9		2	ug/Kg	95	NA	60-140	NA	0-60		LFM	
	26093	N - BUTYLBENZENE	ND	1.4		2	ug/Kg	70	NA	60-140	NA	0-60		LFM	
	26093	1,2,4 - TRICHLOROBENZENE	ND	1.5		2	ug/Kg	75	NA	60-140	NA	0-60		LFM	
	26093	HEXACHLOROBUTADIENE	ND	1.6		2	ug/Kg	80	NA	60-140	NA	0-60		LFM	
	26093	NAPHTHALENE	ND	1.4		2	ug/Kg	70	NA	60-140	NA	0-60		LFM	
	26093	1,2,3 - TRICHLOROBENZENE	ND	1.5		2	ug/Kg	75	NA	60-140	NA	0-60		LFM	
	26093	TRICHLOROFLUOROMETHANE	ND	1.7		2	ug/Kg	85	NA	60-140	NA	0-60		LFM	
	26093	1,1 - DICHLOROETHYLENE	ND	1.9		2	ug/Kg	95	NA	60-140	NA	0-60		LFM	
	26093	METHYLENE CHLORIDE	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	METHYL TERT-BUTYL ETHER	ND	1.8		2	ug/Kg	90	NA	60-140	NA	0-60		LFM	
	26093	1,2 - DICHLOROETHANE-d4 (SURR)	106	122			%		NA	70-130	NA	0-50		LFM	
	26093	4-BROMOFLUOROBENZENE (Sum)	110	116			%		NA	70-130	NA	0-60		LFM	
	26093	d8-TOLUENE (Surr)	98	101			%		NA		NA			LFM	-



Page 1 of 1

Qualifier Definitions

Reference Number: 11-11910 Report Date: 08/19/11

Qualifier	Definition
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
LR	Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 11-11910 Report Date: 08/19/11

Lab No	Analyte	Result Qualifier	Units	Method	Limit	
8260S_110815						1
⁻ , 26091	1,2 - DICHLOROETHANE-d4 (SURR)	78	%	8260B	Acceptance Range is 70-130%	I,
	4-BROMOFLUOROBENZENE (Sum)	90	%		Acceptance Limits 60-130	
- 	d8-TOLUENE (Surr)	97	%		Acceptance Range: 50-150%	
8260S_110815						
26092	1,2 - DICHLOROETHANE-d4 (SURR)	101	%	8260B	Acceptance Range is 70-130%	
	4-BROMOFLUOROBENZENE (Surr)	80	%		Acceptance Limits 60-130	
_ '	d8-TOLUENE (Surr)	101	%		Acceptance Range: 50-150%	
-8260S_110815						
26093	1,2 - DICHLOROETHANE-d4 (SURR)	106	%	8260B	Acceptance Range is 70-130%	
•	4-BROMOFLUOROBENZENE (Surr)	110	%		Acceptance Limits 60-130	
- *	d8-TOLUENE (Surr)	98	%		Acceptance Range: 50-150%	

		GED CONSULT		BILL TO:	CON I	KAIGH	r, gener ED	se Pal man	ager		FOR LAI	USE ON	<u>Y</u>	7		proato en	
ADD	RESS: 1941 LAKE	WHATCOM B	LVD #113		18700					REF#	11-	1194	5				
	BELLINGHAM				Conup		TATE: WA	ZIP: 9	8238			ATORY PR		-	ANALY		
ATTN	Doua DIL	LENBERGER		PHONE:	34D. 4	45-52) FAX:		,	' —		NKING WA			Corpor 1620 S Wa		
Рног	NE: 800-457-190	2 FAX: 36073.	4-7689	P.O.#:	-		ATTN:			1		ATER ACT			Burlington, W	VA 98233	
EMAI	: joyce@data	linkwest. a	M	□VISA	□ M/C	ΠA	VE I	EXPIRES	1	1 —		CERCLA			<u>1.800,755</u> Microbia		
Proj	ECT NAME: 2K 1004	-1 CONWAU	FEED	CARD#	_						OTHER				805 W. Orchard Bellingham, V	d Dr. Suite 4	
		ļ		<u> </u>						ANALY	VOIC DE	QUESTE			Demigram, v	VA 90225	
2. E 3. C	USE ONE LINE PER SAI BE SPECIFIC IN TEST R CHECK OFF TESTS TO FOR EACH SAMPLE, ENTER NUMBER OF CO	EQUESTS. BE PERFORMED	☐ HAL	NDARD F-TIME (50 CKEST (10	% surch	ARGE)			50 35/8260						R OF NERS		
_	SAMPLE ID	LOCATI	ION	GRAB/ COMP.	MATRIX	DATE	TIME	P6	5036						Number of Containers IDIOO DIOO	IAL INSTRUCTIONS ITIONS ON RECEIP	τ :
1	8-01-A	REMEDIATION	n field	arab	BOIL	08/01/11	9.00		A			П			17		<u>.</u>
2		"		"	u	A	"								2		
3	8-01-B	"		11	"	"	9.15								7		-
4	11	"		"	"	"	"					l 🗖 ·			2	-	
\neg	8-01-C	"		ų.	4	4	9.30								7		-
6		/1		"	"	11	"								2		_
7	 :																-
8																	
9																	
	PIEDRY: DOLLG =	I LEWIS COL) Bug				1 3/4/).	<u> </u>	<u> </u>								\neg
	PLED BY: DOUG P			NE: 800-4	<u> 57-190</u>	2 FAX	(: 360; 1 731	4-7680	7 EN	IAIL: jouce	@ data	linkwest	t · com		9 ◀TOTAL	. CONTAINERS	
		(or Empley				•							_	<u> </u>	Ven 11	
RELI	NO VISHED BY	2/1	DATE	TIME	RECEIVED	BY			DATE	TIM	E CU	STODY SI	EALS INTA	, la	II)	Yes No Na	/A =1
کنے کے	reg Mille	08	101/11												SFACTORY -		_
	DILLENGER								 		~	*** ## 1614	····	U SAII	OFACIORY	<u>-</u> 4 L_ L	J
roug	a pillenigen	, sec	1			_			İ		SA	ADI ES DE	CEIVED I	NITAOT	t	7 [

Chain of Custody / A	nalysis Regu 11	-09338	able shaded sections)		Page / of /
IroGeo Consult Whatcom Blvd	BILL TO SCOTT McKN CONWAY): IIGHT, Gen. Mgr. FEED	For Lab L Ref # LL- 60 Check Regula	tory Program Ing Water Act er Act	12971 NALY TICAL LABORATORIES 1620 S. Walnut St. Burlington, WA 98233 1.800.755.9295 D5 W. Orchard Dr. Suite 4 Bellingham, WA 98225
Instructions 1. Use one line per sample Location. 2. Be specific in analysis requests. 3. (NEW) List each metal individually. 4. Check off analyses to be performed each sample Loaction. 5. Enter number of containers.	for Quickest (100% surcharge) Emergency (Phone C	harge)) Phone Call Req. all Req.)	Analyses Reques		CO012971
	Comp. Matrix	ACTOR COST, ACAMORAGINA A			Special Instructions Conditions on Receipt
1 6-20-1 2 6-20-2 3 6-20-3 4 6-20-4 5 6-20-5 6 7 8 9 10 Sampled by: Doug Dillen Berga	Soil 6	- 20 2110 V	Email: jouce@a	atalinkwest.com	Total Containers
Sample Receipt Request (Must inc	lude EAY or Email) *V	V - water SW - s DW - drinking water GW - 0	urface water Ground water Date Time Cus Sam Sam		Yes No N/A
FORM COT 01-66-2009		Je (D	Cha	in of custody & labels a	gree 🟒

nam of Gust	ody / Analysis	<u>ne</u> qu	20300 - 2000	cable snade الح	a sections)	12971
end and the contract of the co	Geo Consultants	BILL T	0:		For Lab Use Only Ref# U-4933	CDCC
hip Address: 1941 Lk W	حددات تا واقعال کو دست در بود دسته در دارای به از در برازی بیران و دارای از این از در این در این در دارای در در دارای در در در در در در دارای در دارای در دارای در دارای در در دارای در	COTT MAN	NIGHT, Gen. M		Check Regulatory Program	ANALYTICAL
	St: WA zip: 9822	CONWAY			Safe Drinking Water Ac	LABORATORIES
	illenberger 155 FAX: 734-7689			1. 4.5.	Clean Water Act	Burlington, WA 98233
Security of the second of the	o@msn.com ទីទី៩ ស្រ	,	ain Street	In and a	RGRA / CERCLA	<u>1.800.755.9295</u>
roject 2K1004 -		Conway, W	A 98238 360.445-5	211	✓ Other	805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
					es Requested	•
n <mark>structions</mark> . Use one line per samp	fe Location : Till	m Around Time Rec	wired	Analys	Mari I I I I I I I I I I I I I I I I I I I	
. Be specific in analysis	requests.	Standard				ilners
. (NEW) List each meta . Check off analyses to	i individually (NEW) be performed for	Half-time (50% su				Se CO012971
each sample Loaction Enter number of conta	·	Quickest (100% surchar Emergency (Phone		<u> </u>		9
an Administration with		Grab/ Sample		2 8		Special instructions Conditions on Recei
Field ID	Location	Comp. Matrix*	47.2 12/5.		<u> </u>	Z Conditions on Recei
6-20-1			6-20 1:50 V			
6-20-2	A CONTRACTOR OF THE PARTY OF TH		6-20 2:00 1			2 I have the second
6-20-3	ere angresse mental and a second	V Soil	6-20 2:10 6	K		
6-20-4	John State Company of the Company of					
G-20-5						
معالية الم	ه معد د د د د د د د د د د د د د د د د د د					
7	and the second and the second		·	- :		
ره و دو و پورو و پرو و در و دو سمسمید که در اور و دو اور دو دو سمسمید که در در دو	g contract to the second and the contract and constraints	1				The state of the s
0	Lander a same appropriate the					
lampled by: Doug DIL	ENBERGER Phone: 8	00,457-1902	- FAX: 734.7689			sayina a silah sikabawa w
Sample Receipt Reque	est (Must include FAX or	Email)	W - water	SW - surface water		OL - oil Other
		•	DW - drinking water	GW - Ground water	3 - 3011	Yes No !
Relinquished by	Date	Time Received b	у	Date	Time Custody seals in	
Lug (7116	62-11	300			Sample temp_	C satisfactory
poua pillendead			1		Samples receive	ed intact
	a 27 april 1		11		****** - · · · · · ·	
poua billenberg		1/1	lea	ω	Chain of custod	y & labels agree

الم المالية ا

Chain of Custody / Analysis Requ

Page / of /

12971



Buthington WA | 1620 S Walnut St - 98233 | 800.755.9295 • 360.757 1400 • 360.757 1402(a)

Bellingham WA 805 Orchard Dr Suite 4 - 98225 Moroboogy 360.671.0688 • 360.671 1577tax June 23, 2011

Page 1 of 1

Sample Receipt

FAX Number: 360-734-7689

NW HydroGeo Consultants 1941 Lake Whatcom Blvd B3 #113 Bellingham, WA 98229

Dear Scott,

We received the following samples for project "2K1004-1" on 6/20/2011 at 3:00 pm. This project is expected to be completed by July 05, 2011. The temperature of the sample cooler was 8C. If you have any questions concerning this project please refer to reference number 11-09338.

LAB NUMBER	CLIENT SAMPLE ID#	Date Sampled	Sampled By	Status	COMMENTS
20365	6-20-1/2K1004-1	6/20/11 1:50 pr	Doug Dillenberger	Pending	
20366	6-20-2/2K1004-1	6/20/11 12:00 a	Doug Dillenberger	Pending	
20366	6-20-2/2K1004-1	6/20/11 1:50 pr	Doug Dillenberger	Pending	•
20366	6-20-2/2K1004-1	6/20/11 2:00 pr	Doug Dillenberger	Pending	
20367	6-20-3/2K1004-1	6/20/11 12:00 a	Doug Dillenberger	Pending	
20367	6-20-3/2K1004-1	6/20/11 1:50 pr	Doug Dillenberger	Pending	j
20367	6-20-3/2K1004-1	6/20/11 2:10 pr	Doug Dillenberger	Pending	

ADDITIONAL COMMENTS:



Burlington WA Corporate Office 1620 S Walnut St - 98233 Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

Portland OR Microbiology/Chemistry

9150 SW Pigneer Ct Ste W- 97070

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 11-09338

Project: 2K1004-1

Report Date: 6/27/11 Date Received: 6/20/11

Peer Review:

Sample Description: 6-20-1 - 2K1004-1

Lab Number: 20365

Date 6/21/11

Sample Date: 6/20/11

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.03	0.025	0.00019	mg/Kg	8260B/5035A	GXS_110621	
TOLUENE	ND		1	7.0	0,10	0.0002	mg/Kg	8260B/5035A	GXS_110621	
ETHYLBENZENE	ND		1	6.0	0.10	0.00021	mg/Kg	8260B/5035A	GXS_110621	
TOTAL XYLENES	ND		1	9.0	0.20	0.00027	mg/Kg	8260B/5035A	GXS_110921	

Sample Description: 6-20-2 - 2K1004-1

Lab Number: 20366

Date 6/21/11

Sample Date: 6/20/11

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Fleg Di	Clea Leve	•	MDL	Units	Method	Batch	Comment
BENZENE	ND	1	0.03	0.025	0.01	mg/Kg	8260B/5035A	GXS_110821	
TOLUENE	ND	1	7.0	0.10	0.01	mg/Kg	8260B/5035A	GXS_110621	
ETHYLBENZENE	ND	1	6.0	0.10	0.01	mg/Kg	8260B/5035A	GXS_110621	
TOTAL XYLENES	ND	1	9.0	0.20	0.01	mg/Kg	8260B/5035A	GXS_110621	

Sample Description: 6-20-3 - 2K1004-1

Lab Number: 20367

Date 6/21/11

Sample Date: 6/20/11

Collected By: Doug Dillenberger

Analyzed By: HY

Cleanup Comment MDL Units Method Batch Flag DF Level POL Parameter Result 8260B/5035A BENZENE ND 0.03 0.025 0.00019 mg/Kg GXS_110621 7.0 mg/Kg 8260R/5035A GXS_110621 TOLUENE 0.2 0,10 0.0002 mg/Kg ND 0.00021 8260B/5035A 6.0 GXS 110621 ETHYLBENZENE 0.10 ND 9.0 0.20 0.00027 mg/Kg 82609/5035A GXS_110621 **TOTAL XYLENES**

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and occurrecy during routine laboratory operating conditions.

up Lovel - The regulatory limit for Method A Cleanup Lovels (MTCA, Chapter 173-340 WAC) contaminants in the specified metric. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Burlington WA

Bellingham WA

1620 S Walmit St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0588

Portland OR

Microbiology/Chemistry

25 9150 SW Pioneer Ct Ste W- 97070

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 11-09338

Project: 2K1004-1

Report Date: 7/8/11

Date Received: 6/20/11

Reviewed by:

Sample Description: 6-20-1 - 2K1004-1 Sample Date: 6/20/11

Lab Number: 20365 Collected By: Doug Dillenberger

Method Analyzed Analyst Batch Comment CAS ID# **Parameter** Result PQL MRL MDL Units DF 7439-92-1 LEAD 6.23 1.09 1.09 6010B/3051 6/24/11 6010B-110624A

Sample Description: 6-20-2 - 2K1004-1 Sample Date: 6/20/11

Lab Number: 20366 Collected By: Doug Dillenberger

Method Analyzed Analyst Batch Comment CAS ID# Parameter Result PQL MRL MDL Units DF 2.14 6010B/3051 6010B-110706A 0.92 0.92 7439-92-1 LEAD mo/Ka

Sample Description: 6-20-3 - 2K1004-1 Sample Date: 6/20/11

Lab Number: 20367 Collected By: Doug Dillenberger

CAS ID# Parameter Result PQL MRL MDL Units DF Method Analyzed Analyst Batch Comment

7439-92-1 LEAD 1.70 0.98 0.98 mg/Kg 1.00 6010B/3051 7/K/11 BJ 6010B-110708A

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor



Bellingham WA

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard Dr 890.755.9295 • 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225 360.671.0688

9150 SW Pioneer Ct Sta W- 97070 503.682,7802

Page 1 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 11-09338

Report Date: 07/08/11

	The state of the s								
			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
6010B-110624A	LEAD	0.89	1	mg/L	6010B	89	70-130	LFB	
		4	4		6010B	100	70-130	LFB	
6010B-110706A	LEAD	1	1	mg/L	dolop	100	10-100	2, 5	
GXS_110621	BENZENE	0.91	1	mg/Kg	8260B	91	70-130	LFB	
_	d8-TOLUENE (Surr)	104		%	8260B				
	ETHYLBENZENE	0.88	1	mg/Kg	8260B	88	70-130		
	TOLUENE	0.93	1	mg/Kg	8260B	93	70-130		
	TOTAL XYLENES	2.61	3	mg/Kg	8260B	87	70-130		

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walmut St - 98233

800.755.9295 • 360.757.1400

Bellingham WA Microbiology

360.671.0688

Microbiology Microbiology/Chemistry
805 Orchard Dr Sta 4 - 98225 9150 SW Pioneer Cl Sta

9150 SW Pioneer C1 Sta W- 97070 503 682 7602

Portland OR

Page 2 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 11-09338

Report Date: 07/08/11.

à

			True			%	QC		,
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	QualifierType*	Comment	
6010B-110624A	LEAD .	ND		mg/L	6010B	0.00100) LRB		
6010B-110706A	LEAD	ND		mg/L	6010B	0.00100	LRB		

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an allquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Watnut St - 98233

800.755.9295 • 360.757.1400

Bellingham WA Microbiology

Portland OR Microbiology/Chemistry 9150 SW Ploneer Ct Ste W- 97070 805 Orchard Dr Ste 4 - 98225 360.671.0688

503.682.7802

Page 3 of 4



SAMPLE INDEPENDENT **QUALITY CONTROL REPORT**

Method Blank

Reference Number: 11-09338

Report Date: 07/08/11

•	A STATE OF THE STA							
			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment
6010B-110624A	LEAD	ND		mg/L	6010B	3.12000	МВ	
				_		0.4000) MB	
6010B-110706A	LEAD	ND		mg/L	6010B	3.12000	у мь	
GXS_110621	BENZENE	ND		mg/Kg	8260B	0.06000) MB	TB 11-09338
0,10_1,1002.	d8-TOLUENE (Surr)	101		%	8260B			TB 11-09338
	ETHYLBENZENE	ND		mg/Kg	8260B	0.06000)	TB 11-09338
	TOLUENE	ND		mg/Kg	8260B	0.0600)	TB 11-09338
	TOTAL XYLENES	ND		mg/Kg	8260B	0.06000)	TB 11-09338

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Burlington WA Corporate Office 1620 S Walnut St - 98233

Bellingham WA

Portland OR Microbiology/Chemistry

Microbiology

805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

9150 SW Pioneer Ct Ste W- 97070 503.682,7802

Page 4 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 11-09338

Report Date: 07/08/11

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC QualifierType*	Comment
6010B-110624A	LEAD	1	1	mg/L	6010B	100	70-130	QCS	
6010B-110706A	LEAD	1.01	1	mg/L	6010B	101	70-130	QCS	

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS; Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.



Burlington WA

1620 S Watnut St - 98233

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070

Portland OR Microbiology/Chemistry



Page 1 of 2

SAMPLE DEPENDENT **QUALITY CONTROL REPORT**

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 11-09338 Report Date: 7/8/2011

Duplicat	Duplicate											
			Duplicate			QC						
Batch	Sample Analyte	Result	Result	Units	%RPD Limits	Qualifier	Type Comments					
GXS_110621												
	20365 d8-TOLUENE (Surr)	101	101	%	0.0		DUP					
	20367 TOLUENE	0.2	0.14	mg/Kg	35.3 0-50	ST	DUP					
	20367 d8-TOLUENE (Surr)	101	103	%	2.0		DUP					



יינט לבנט ענים ומדון אונין ונבין יינדים ודדם ובדים

Page 2 of 2

Reference Number: 11-09338

Report Date: 7/8/2011

Matrix Spike

Matrix S	natrix Spike					Duplicate									
				Spike	Spike	Spike		Percer	t Recovery				QC		
Batch	Sample	Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier	Туре	Comments
GXS_110621		.	<u>_</u>												
	20366	BENZENE	ND	0.91		1	mg/Kg	91	NA	70-130	NA	0-60		LFM	
	20366	TOLUENE	ND	0.92		1	mg/Kg	92	NA	70-130	NA	0-60		LFM	
	20366	ETHYLBENZENE	ND	0.85		1	mg/Kg	85	NA	70-130	NA	0-60		LFM	
	20366	TOTAL XYLENES	ND	2.53		3	mg/Kg	84	NA	70-130	NA	0-60		LFM	
	20366	d8-TOLUENE (Surr)	102	104			%		NA		NA			LFM	







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 11-09338

Report Date: 07/08/11

						
Lab No	Analyte	Result Qualifier	Units	Method	Limit	
GXS_110621 20365	d8-TOLUENE (Sum)	101	%	8260B	Acceptance Range: 50-150%	
GXS_110621 20366	d8-TOLUENE (Surr)	102	%	8260B	Acceptance Range: 50-150%	
GXS_110621 20367	d8-TOLUENE (Surr)	101	%	8260B	Acceptance Range: 50-150%	



Page 1 of 1

Qualifier Definitions

Reference Number: 11-09338

Report Date: 07/08/11

Qualifier	Definition
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
ST	Statistical limits do not apply for method 5035a

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

FORM: QualifierDefs

Ground Water Samples Collected on: December 30, 2010



1620 S Walnut St - 98233 800.755.9295 • 360.757.1400

Bellingham WA Microbiology

360.671.0688

Portland OR Microbiology/Chemistry

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 503.682.7802

January 7, 2011

Page 1 of 1

Doug Dillenberger NW HydroGeo Consultants 1941 Lake Whatcom Blvd B3 #113 Bellingham, WA 98229

RE: 10-19541 - Conway Feed 2K 1004

Dear Doug Dillenberger,

Your project: Conway Feed 2K 1004, was received on Thursday December 30, 2010.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully Submitted,

Lawrence J Henderson, PhD Director of Laboratories

Enclosures Data Report



Bellingham WA Microbiology

Portla

1620 S Walnut St - 98233 800.755.9295 • 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225

9150 SW Pioneer Ct Ste W- 97070 503,682,7802

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-19541

Project: Conway Feed 2K 1004

Report Date: 1/7/11

Date Received: 12/30/10

Reviewed by:

Sample Date: 12/30/10 2:15 pm Sample Description: 1 - Conway Feed Co. Conway Pit Collected By: Doug Dillenberger Lab Number: 43754 Analyzed Analyst Batch DF Method Comment MDL Units Parameter Result PQL CAS ID# 0.003 200.8/3010A 1/8/11 200.8_110106WW 0.0005 4.19E-05 LEAD 1.0 7439-92-1

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions. D.F. - Dilution Factor



1620 S Walnut St - 98233

800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225

Portla

9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-19541

Project: Conway Feed 2K 1004

Report Date: 1/6/11

Date Received: 12/30/10

Peer Review:

Sample Description: 1 - Conway Feed Co. Conway Pit

Lab Number: 43754 Date 1/5/11

Sample Date:

12/30/10

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag I	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.005	0.0004	0.00021	mg/L	8260B/5030B	GXW_110105	
TOLUENE	ND		1	1.00	0.0004	0.00018	mg/L	8260B/5030B	GXW_110105	
ETHYLBENZENE	ND		1	0.70	0.0004	0.00015	mg/L	8260B/5030B	GXW_110105	
TOTAL XYLENES	ND		1	1.00	0.0008	0.0005	mg/L	8260B/5030B	GXW_110105	
GASOLINE (C8 - C12)	ND		1	1	0.10	0.039	mg/L	8260B/5030B	GXW_110105	

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter 173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 10-19541

Lab No	Analyte	Result Qualifier	Units	Method	Limit
GXW_110105	4-BROMOFLUOROBENZENE (Surr)	86	%	8260B	Acceptance Range Is 70-130%
43754	d8-TOLUENE (Surr)	99	%		Acceptance Range: 50-150%



1620 S Walnut St - 98233

800.755,9295 • 360.757.1400 360.671.0688

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225

N P

Portlan -----R Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503,682,7802 Page 1 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 10-19541

Report Date: 01/07/11

	· •	•	True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
200.8_110106WV	LEAD	0.040	0.040	mg/L	200.8	100	85-115	LFB	
GXW_110105	BENZÉNE	0.0042	0.004	mg/L	8260B	105	80-120	LFB	
	d8-TOLUENE (Surr)	100		%	8260B				
	ETHYLBENZENE	0.0043	0.004	mg/L	8260B	108	80-120		
	GASOLINE (C8 - C12)	0.514	0.5	mg/L	8260B	103	80-120		
	TOLUENE	0.0041	0.004	mg/L	8260B	103	80-120		
	TOTAL XYLENES	0.0131	0.012	mg/L	8260B	109	80-120		

*Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix, to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to

determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Burlington WA
Corporate Office
1620 S Walnut St - 98233

Bellingham WA

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755,9295 • 360,757.1400 360,671,0688

Portla: JR
Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070

503.682.7802

Page 2 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 10-19541

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment
200.8_110106WV	LEAD	ND	-	mg/L	200.8	0.0010	0 LRB	

^{*}Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Burlington WA

1620 S Walnut St - 98233

800,755 9295 • 360,757,1400 360,671,0688

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225

Portla، النست R Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070 503.682.7802 Page 3 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 10-19541

Report Date: 01/07/11

	. 40							
			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment
200.8_110106WV	LEAD	ND		mg/L	200.8	0.00030	MB	
GXW_110105	BENZENE	ND		mg/L	8260B	0.00013	мв	
_	d8-TOLUENE (Surr)	98		%	8260B			
	ETHYLBENZENE	ND		mg/L	8260B	0.00013	i.	
	GASOLINE (C8 - C12)	ND		mg/L	8260B	0.06000	1	
	TOLUENE	ND		mg/L	8260B	0.00013	1	
	TOTAL XYLENES	ND		mg/L	8260B	0.00013	I	

*Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walnut St - 98233

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

Portlan UR Microbiology/Chemistry 9150 SW Pioneer Ct Ste W- 97070

503.682.7802

Page 4 of 4



SAMPLE INDEPENDENT **QUALITY CONTROL REPORT**

Quality Control Sample

Reference Number: 10-19541

Report Date: 01/07/11

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment
200.8_110106WV	LEAD	0.039	0.040	mg/L	200.8	98 85-115	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 800.755,9295 • 360.757,1400 360,671,0688

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 503.682.7802



Page 1 of 2

SAMPLE DEPENDENT **QUALITY CONTROL REPORT**

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 10-19541

Duplic	cate							
			Duplicate				QC	
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments	
200.8_110	106WW					•		
	43352 LEAD	15	15	ug/L	0.0	0-20	DUP	
	43695 LEAD	1.1	1.1	ug/L	0.0	0-20	DUP	
GXW_110	105							
	42495 BENZENE	0.070	0.070	mg/L	0.0	0-45	DUP	
	42495 TOLUENE	0.076	0.076	mg/L	0.0	0-45	DUP	
	42495 ETHYLBENZENE	0.005	0.005	mg/L	0.0	0-45	DUP	
	42495 TOTAL XYLENES	0.046	0.045	mg/L	2.2	0-45	DUP	
	42495 d8-TOLUENE (Surr)	100	100	%	0.0		DUP	



Page 2 of 2

Reference Number: 10-19541

Report Date: 1/7/2011

Matrix Spike

IVIATITIX 5	pike				Duplicate	9									
				Spike	Spike	Spike		Percer	t Recovery				QC		
Batch	Sample	Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier	Турв	Comments
200.8_110106	ww														
	43352	LEAD	15	988		1000	ug/L	97		70-130	NA	0-60		LFM	
	43557	LEAD	ND	0.048		0.050	mg/L	96		70-130	NA	0-60		LFM	
	43695	LEAD	1.1	49.3		50	ug/L	96		70-130	NA	0-60		LFM	
GXW_110105															
	43754	BENZENE	ND	0.0049		0.005	mg/L	98	NA	70-130	NA	0-60		LFM	
	43754	TOLUENE	ND	0.0048		0.005	mg/L	96	NA	70-130	NA	0-60		LFM	
	43754	ETHYLBENZENE	ND	0.0049		0.005	mg/L	98	NA	70-130	NA	0-60		LFM	
	43754	TOTAL XYLENES	ND	0.0146		0.015	mg/L	97	NA	70-130	NA	0-60		LFM	
	43754	d8-TOLUENE (Surr)	99	101			%		NA		NA			LFM	

CHAIN OF CL	JSTODY / A	ANAL	YSIS.	REQU	JEST	(PLEAS	E COMPL	ETE ALL	APPLIC	ABLE	SHAD	ED SEC	TIONS)		Pag	E OF	t	
REPORT TO: YORTHWEST	44		BILL TO:	CALLAGO	M CUNI	CHT	m/R					USE ON		7				_
ADDRESS: 1941 HWHATCH	OM BLVD B-3	#113	ADDRESS	conwi	74 FEE	BOX 5	576		Ref#	10	-10	154	1		T.	MALYTIC	ΆL	
CITY: BELLINGHAMI		98229	City:	Conwa	AU ST		ZIP: 98	,	Сн	ECK RE	GULA	TORY P	ROGRAM		L	<u>Corporate</u>		
ATTN: DOUG DILLENBERGE	R		PHONE;	360 ₄ 45	-5211	FAX:				SAFE	DRINI	KING W A	TER ACT			South Wal	nut St.	
PHONE: 360, 734-495	5 FAX:36934-7	689	P.O.#:	· 		ATTN:				CLEA	n Wa	TER ACT		1		ngton, WA .800.755.92		
EMAIL: joyae Dolostalin	rkwest.com	<i></i>	□VISA	□ M/C		Έ Ε	XPIRES	1		RCR	A/C	ERCLA			<u>Microbiology</u>			
PROJECT NAME: COYWAY	2K1004		CARD#							Отне	R			805 W. Orchard Dr. Suite 4 Bellingham, WA 98225				4
									ANAL	YSIS F	REQL	JESTEI		_		g,	COLLO	
INSTRUCTIONS 1. USE ONE LINE PER SAM 2. SPECIFIC IN TEST RE 3. LIST EACH METAL I 4. CHECK OFF ANALYSIS T FOR EACH SAMPLE LOC 5. ENTER NUMBER OF CON	OUESTS. NDIVIDUALLY. DEPERFORMED ATION.		STANDARD HALF-TIME (QUICKEST (1	(50% SURC 00% SURCHAI Y (PHONE (R OF CONTAINERS						
SAMPLE ID	LOCATION		GRAB/ COMP.	Sample Matrix	DATE	TIME	nwri ⁷ H	5							NUMBER	SPECIAL I		
	ConeWAY FEET) (b.			12/30	2/16		- 100							3			I. P.
2 1	NONWAY PI	7		water	2010					Ī						The state of the s	#E1711:253,1124;	May 1 magnetic for the
3			35. 3															
4	12045180550.1 12 45 45 40 40 40 40 40 40 40 40 40 40 40 40 40	int with Mark and	5A0-P-V2-16-79	- Mary could be a sept - Self and a se	and recommendates are no	1 72.723 W. 1740 V							24 770	na anakata anakanna sa				
6																		
7			18022454	\$9.5075.34875	1004-200					16	` '	101	5⊿1	 	28500	5460 B 4 5 4 5 4 5 1 5 1 5	* WYSLIT	KANATERDI
8		tur justi i s		<u> </u>						11	J -	43754	י ו־ע		18.5.			ALC: X
9											_ M&				No. 2000	and one control	\$2 4 0.000	astrit
10		igi James da Sara Jawa				Pagadicopi									3			
SAMPLED BY: DOUG DIL			ONE: 340)	34-496	5 FA)	(;	· ·	EM	MIL:	<u> </u>		<u> </u>	<u>, </u>	<u> </u>		▼Total Co	NTAINER	s
SAMPLE RECEIPT REQUESTE	ED (MUST INCLUDE FA)	X OR EMAIL	L) 🗆 🌂	W-WATER DW-DRINKING		SW-surf.	ACE WATER	WW-w	ASTE WAT		L-OIL THER_		_ (1					
RECINQUISHED BY		DATE	TIME	RECEIVED	BY			DATE		 Пме	l cus	STODY 9	SEALS INT	TACT		YES	No 🗆	N/A
Jun 1/1/1	<u>,</u>	-					1 14-1	127			4			_°C SATIS	SEACT			
DOUG DILLETBERG	<i>CCO</i>	12/30/10	DER				+//	1430/1	0119	<u>58</u>	4		RECEIVED		DFAU1		. [
LEGAN DILLETNIK		130/10	اعرن	 				-	-		ł		•				, ,	
FORM: COC 01-06 2000		<u> </u>	<u> </u>									AIN OF C	USTODY	& LABELS	S AGR	EE 🛮		



1620 5 Walnut St - 98233 800.755.9295 • 360.757.1400 Bellingham WA Microbialogy

360.671.0668

Portland OR Microbiology/Chemistry

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 503.682.7802

January 7, 2011

-94

Page 1 of 1

Doug Dillenberger NW HydroGeo Consultants 1941 Lake Whatcom Blvd B3 #113 Bellingham, WA 98229

RE: 10-19541 - Conway Feed 2K. 1004

Dear Doug Dillenberger,

Your project: Conway Feed 2K 1004, was received on Thursday December 30, 2010. All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully Submitted,

Lawrence J Henderson, PhD Director of Laboratories Enclosures Data Report

> RECEIVED JAN 0 7 2011



Bellingham WA

1620 S Walnut S1 - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

Portland OR Microbiology/Chemistry

9150 SW Pigneer Ct Ste W- 97070 503,682,7802

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-19541

Project: Conway Feed 2K 1004

Report Date: 1/7/11

Date Received: 12/30/10

Reviewed by:

Sample Date: 12/30/10 2:15 pm Sample Description: 1 - Conway Feed Co. Conway Pit Collected By: Doug Dillenberger Lab Number: 43754 Analyzed Analyst Batch Comment Parameter Result PQL MDL Units DF Method CAS ID# 200.8_110106WW 0.003 0.0005 4.19E-05 200.8/3010A 18711 7439-92-1 LEAD

Notes

ND = Not detected above the listed practical quantitation limit (POL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be echieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistr

1620 S Walnut St - 98233 800.755.9295 • 360.757.1400 360.671.0688

605 Orchard Dr Ste 4 - 98225

9150 SW Pioneer Ct Ste W-97070

503,682,7802

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lake Whatcom Blvd B3 #113

Bellingham, WA 98229

Reference Number: 10-19541

Project: Conway Feed 2K 1004

Report Date: 1/6/11 Date Received: 12/30/10

Peer Review:

Sample Description: 1 - Conway Feed Co. Conway Pit

Lab Number: 43754

Date 1/5/11

Sample Date: 12/30/10

Collected By: Doug Dillenberger

Analyzed By: HY

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Batch	Comment
BENZENE	ND		1	0.005	0.0004	0,00021	mg/L	8260B/5030B	GXW_110105	
TOLUENE	ND		1	1.00	0.0004	0.00018	mg/L	8260B/5030B	GXW_110105	
ETHYLBENZENE	ND		1	0.70	0.0004	0.00015	mg/L	8260B/5030B	GXW_110105	
TOTAL XYLENES	ND		1	1.00	0.0008	0.0005	mg/L	8260B/\$030B	GXW_110105	
GASOLINE (C8 - C12)	ND		1	1	0.10	0.039	mg/L	8260B/5030B	GXW_110105	

ND - A result of "ND" Indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor

Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) conteminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.



Bellingham WA Microbiology

Microbiology/Chemistry 1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

9150 SW Pioneer CI Ste W- 97070 503.682.7602

Portland OR

Page 1 of 4

SAMPLE INDEPENDENT

QUALITY CONTROL REPORT Laboratory Fortified Blank

Reference Number: 10-19541

			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
200.8_110106WV	LEAD	0.040	0.040	mg/L	200.8	100	85-115	LFB	
GXW_110105	BENZENÉ	0.0042	0.004	mg/L	8260B	105	80-120	LFB	
	d8-TOLUENE (Surr)	100		%	8260B				
	ETHYLBENZENE	0.0043	0.004	mg/L	8260B	108	80-120		
	GASOLINE (C8 - C12)	0.514	0.5	mg/L	8260B	103	80-120		
	TOLUENE	0.0041	0.004	mg/L	8260B	103	80-120		
	TOTAL XYLENES	0.0131	0.012	mg/L	8260B	109	80-120		

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS; Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755,9295 • 360.757,1400 360.671,0688

9150 SW Pioneer CI Ste W- 97070 503.682.7802

Page 2 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 10-19541

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	QualifierType*	Comment
200.8_110106WV	LEAD	ND		mg/L	200.8	0.0010	LRB	

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9296 • 360.757.1400 360.671.0698

Portland OR Microbiology/Chemistry

9150 SW Pioneer Ct Ste W- 97070

Page 3 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 10-19541

	- Aller and a second a second and a second a							
			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limit	s QualifierType*	Comment
200.8_110106WV	LEAD	ND		mg/L	200.8	0.00	030 MB	
GXW_110105	BENZENE	ND		mg/L	8260B	0.00	013 MB	
	d8-TOLUENE (Surr)	98		%	8260B			
	ETHYLBENZENE	ND		mg/L	8260B	0.00	013	
	GASOLINE (C8 - C12)	ND		mg/L	. 8260B	0.06	000	
	TOLUENE	ND		mg/L	8260B	0.00	013	
	TOTAL XYLENES	ND		mg/L	8260B	0.00	013	

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 800.755.9295 • 360.757.1400 360.671.0688

9150 SW Pioneer Ct Sia W- 97070 503,682,7802

Page 4 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 10-19541

			True			%	QC		
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment	:
200.8_110106WV	LEAD	0.039	0.040	mg/L	200.8	98 85-11	GCS QCS		

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Watnut St - 98233 800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA Microbiology

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070

Portland OR Microbiology/Chemistry

503.682.7802



Page 1 of 2

Reference Number: 10-19541

Report Date: 1/7/2011

SAMPLE DEPENDENT **QUALITY CONTROL REPORT**

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

_			_		
п		_	3.		te
L	u	ш	11	•••	Lt

Dabiio	uic				
			Duplicate		QC
Batch	Sample Analyte	Result	Result	Units	%RPD Limits Qualifier Type Comments
200.8_110	106WW		<u> </u>		
	43352 LEAD	15	15	ug/L	0.0 0-20 DUP
	43695 LEAD	1.1	1.1	ug/L	0.0 0-20 DUP
GXW_110	105				
	42495 BENZENE	0.070	0.070	mg/L	0.0 0-45 DUP
	42495 TOLUENE	0.076	0.076	mg/L	0.0 0-45 DUP
	42495 ETHYLBENZENE	0.005	0.005	mg/L	0.0 0-45 DUP
	42495 TOTAL XYLENES	0.046	0.045	mg/L	2.2 0-45 DUP
	42495 d8-TOLUENE (Surr)	100	100	%	0.0 DUP



Page 2 of 2

Reference Number: 10-19541

Report Date: 1/7/2011

Matrix Spike

Matrix	Spike				Duplicat	6									
				Spike	Spike	Spike		Percer	t Recovery				QC		
Batch	Sample	Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier	Туре	Comments
200.8_110	106WW	= :						_	-						
	43352	LEAD	15	988		1000	ug/L	97		70-130	NA	0-60		LFM	
	43557	LEAD	ND	0.048		0.050	mg/L	96		70-130	NA	0-60		LFM	
	43695	LEAD	1.1	49.3		50	ug/L	96		70-130	NA	0-60		LFM	
GXW_110 ⁴	105														
_	43754	BENZENE	ND	0.0049		0.005	mg/L	98	NA	70-130	NA	0-60		LFM	
	43754	TOLUENE	ND	0.0048		0.005	mg/L	96	NA	70-130	NA	0-60		LFM	
	43754	ETHYLBENZENE	ND	0.0049		0.005	mg/L	98	NA	70-130	NA	0-60		LFM	
	43754	TOTAL XYLENES	ND	0.0146		0.015	mg/L	97	NA	70-130	NA	0-60		LFM	
	43754	d8-TOLUENE (Suπ)	99	101			%		NA		NA			LFM	







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 10-19541

Lab No	Analyte	Result Qualifier	Units	Method	Limit
GXW_110105	4-BROMOFLUOROBENZENE (Surr)	86	%	8260B	Acceptance Range is 70-130%
43754	d8-TOLUENE (Surr)	99	%		Acceptance Range: 50-150%

CHAIN OF CU	ISTODY / A	NALYS	sis R	EQU	EST	(PLEASE	COMPL	ETE ALL	APPLICA	BLE S	HADED SECTIONS)		PAGE	OF	
REPORT TO:) LIGHT HUEST	Hupred GEO Crossus	TANTS B	BLL TO: S	eon y	196116	aht, r	naR			For	LAB USE ONLY				## #
ADDRESS: 1941 LKWHAICO			ODRESS: C	onwa:	y 1-861	30x5	76		Ref#	10.	<u>-19541</u>	╛	ANAL	ATORIES	Ŀ
CITY: BELLINGILANI		8229	ין יצדול	าตาเมA	C) STA	NTE: WA	-		CHE	CK REC	GULATORY PROGRAM			orate	
ATTN: DOUG DILLE HOERGE	K	Р	HONE: 36	C.445-	5211	FAX:				SAFE [ORINKING WATER ACT		1620 Souti Burlington,		
PHONE: 366-134-495	5 FAX: 34-76		P.O.#:			ATTN:	•••			CLEAN	WATER ACT			55.9295	100
EMAIL: 104 pe Donatalin	1	1	VISA	□ M/C	□ A/I	E E	XPIRES	1		RCRA	/ CERCLA			biology	
I J Governan	2K 1004		CARD#							OTHER	₹		5 W. Orch Bellingham		
				-					ANALY	SIS R	EQUESTED				
INSTRUCTIONS 1. USE ONE LINE PER SAMI 2. BE SPECIFIC IN TEST RE 3. HEW LIST EACH METAL II 4. CHECK OFF ANALYSIS TO FOR EACH SAMPLE LOC 5. ENTER NUMBER OF CON	QUESTS. NDIVIDUALLY, NEW O BE PERFORMED ATION.	HALE	NDARD F-TIME (50 CKEST (100	REQUIRED 0% SURCE % SURCHAR (PHONE C	HARGE)		nuri7H-1376X	0					ER OF CONTAINERS		
SAMPLE ID	LOCATION		CABI I	Sample * Matrix	DATE	TIME		2							RUCTIONS/ ON RECEIPT
	CONCAUFEEL) (h).			12/307	2/15							3 🕸		
2	NorwAll Pl	7	u	acter	2010					- L			Table lances	New York Inc.	
3.		*// 3				PROFES									
4		23 40 0	and the second state		Processor Process	A PROGRAMME		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					- 1534 C. 1534-155	OPOGNIJA I ER	till kan til store kan til
5		第二章 第三		5.77 Aug		700 N									
6		2018 A 12 C 2 1 1 1 1 1 1 1	9998 No 311	क्या स्टार्ट १५५	E TENSANT	100000000000000000000000000000000000000				40	1-19541	186			
						374636				1	43754	· (%)			
8	 	75 7674 VSAN	(855X (8)	(24) (4)	~~~~								3 850 - 500	78 W. 15 E.	V. (V.)
10			200402	gan teger	<u> </u>	**************************************							3	/ × 0.5 / 0.4 / 0	
SAMPLED BY: DELIG DIL	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	PHONE	365131	4:496	5 FA	X:	<u> </u>	E	MAIL:				<u>~</u>	TAL CONT	AINERS
SAMPLE RECEIPT REQUESTI				- WATER			ACE WATER	WW-	WASTE WAT		L- orL				
			DV	W-DRINKING	WATER	GW-GRO	UND WATER	S-son		0	THER	mi)		YES	No N/A
RECINQUISHED BY		DATE	TIME	RECEIVED	BY			DATE	1	ПМЕ	CUSTODY SEALS IN	TACT			
Jun () H. L.							417	12/3/21	10 14	58	SAMPLE TEMP 5	_°C SATIS	FACTORY		
DELIG DILLETBEN	- (C\$A)	15/20 2	155	,			f.—[±—√				SAMPLES RECEIVE	O INTACT			
PLUIL DILLOTNIK	الماركاني	194/16									CHAIN OF CUSTOD	r & LABELS	AGREE	1	
FORM: COC 01-06-2009						· · · ·		1			1				

CHAIN OF C	USTODY / A	ANAL	<u>YSIS</u>	REQU	JEST	(PLEAS	E COMPL	ETE ALL	APPLI	CABLE	SHADE	ED SECT	10NS)		PAG	}Ε	OF		
REPORT TO: YLONTHUEST	Hyprescro Corse	UTAINS	BILL TO:		a) Adai	CUT.	11/2 D			For	R LAB L	JSE ONL	Y	7	C				
ADDRESS: 1941 HKWHATE	ON BLVD B-3	#113	ADDRESS	conwa	ty FEE	BOX 5	76		Ref#	<u> </u>						NALYI		Ŀ	
CITY: BELLINGHAMI	STATE: WA ZIP	48229	CITY:	CMILLY	}{/ ST		ZIP: 98	, 	<u>C</u> i	HECK R	EGULA1	TORY PR	OGRAM	7		Corpor			
ATTN: DOUG DILLELLIDERGE	ER		PHONE:	36C.445	<u> 3211</u>	FAX:				SAFE	DRINK	ING WAT	ER ACT			South V	Valnut		
PHONE: 34.C. 734-498	1		P.O.#;			ATTN:				CLEA	N WAT	ER ACT			Burii 1	ngton, W. 1.800.755	A 982 5.9295	233	
EMAIL: joyee a dortali	nkwest-com	,	UVISA	□ M/C	□ A/	E E	XPIRES	1		RCF	RA / CE	ERCLA				Microbio			
PROJECT NAME: COTWAY	2K1004		CARD#							Отн	ER			8		. Orchard ngham, W			
						-			ANAL	YSIS	REQU	ESTED		_	Delli	ignam, v	IA 302	220	
INSTRUCTIONS 1. USE ONE LINE PER SAM	IDI E LOCATION	TURN A	ROUND TIM	ME REQUIRE	:D		V							<u> </u>	٦ "				
2. BE SPECIFIC IN TEST RE	EQUESTS.	□s	TANDARD		-		BTEX				ŀ				CONTAINERS				
3. NEW LIST EACH METAL I	INDIVIDUALLY, NEW			(50% SURC			\simeq		ļ				,		N ATA				
FOR EACH SAMPLE LOC	CATION.			100% surchai Y (PHONE (놋								ြို့				
5. ENTER NUMBER OF CO	NTAINERS.	٠		SAMPLE		OIKED)	H-TT-7H	Δ	ļ			,			ERO				
SAMPLE ID	LOCATION		GRAB/ COMP.	MATRIX*	DATE	TIME	มเ	90							NUMBE		AL INSTR		
	CONWAY FEET) (h).			12/30	215	D							門面製	3		ant f		支持
2	Jonwall PI	7		water	2010]] [**************************************		<u> تندیرست</u>	The grandmissions	9 353 35 100 15-	3.30.59.18 _{1.1} 5.2	<u> </u>
3						3 July 2			ME		34		i de						
4	Tradalogica de la la compania de la		S is setting used	Science in the second] [N. 158 T.
5		136																	
6		- *	i (Separa de		Antako bahas (188	000 SCI 2000 SCI	N			ere all one de	30.50								
8																	No.		M.
9		H4438 (441 A)	**************************************	1842 1360 25	i i i i i i i i i i i i i i i i i i i				330 (1333)	ista Wer				l es america	elegarous y			anti de tar	Table over
10			#3 #3 V			80 G (\$0)													
SAMPLED BY: DEUG DIL	1.5 17125 W.FW	Duc	36 <u>C</u>	34-496	5 FAX	<u> </u>	<u> </u>		<u> </u>	<u> </u>					3	<u> </u>			
SAMPLE RECEIPT REQUESTE			- /	W-WATER) FA			·	AIL:						<u></u>	■TOTAL	. CONTA	INERS	
Jan 22 1 2021 1 1 2 2 2 2 2 2	TO (MING! INCLUDE FA	A OR EMAIL		DW-DRINKING	WATER	GW- GRO	ACE WATER JND WATER	WW-w S-soil	ASTE WA	ATER (OL-oil Other								
RELINQUISHED BY	 -	DATE	TIME	RECEIVED				Dame		T	٦ ۵			MI		•	YES	No	N/A
() (III)	/	57.12		KECEIVED	51		1 14 1	DATE		TIME	4		EALS INT				ᆜ		
and the		12/ 1		 			4/1_	12/30/1	011	<u>158</u>	-1			°C SATI	SFAC	•			
DOUG DILLETBER	GER	12/3c/1c	&·55					-			1 SAM	IPLES RI	ECEIVED	INTACT					
FORM: COC 01-06-2009										<u>.</u>	CHA	IN OF C	USTODY	& LABEL	S AGR	REE J			
COC 01-00-2009											_								

Ground Water Samples Collected on: July 22, 2011



1620 S Walnut St - 98233 805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 800.755.9295 • 360.757.1400 360.671.0688 503.682.7802

Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

August 16, 2011

Page 1 of 1

Mr. Doug Dillenberger NW HydroGeo Consultants 1941 Lk Whatcom Blvd B-3 #113 Bellingham, WA 98229

RE: 11-11361 - Conway Feed 2K1004-1

Dear Mr. Doug Dillenberger,

Your project: Conway Feed 2K1004-1, was received on Friday July 22, 2011.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully Submitted,

Lawrence J Henderson, PhD Director of Laboratories

Enclosures Data Report

QC Reports

Chain of Custody



1620 S Watnut St - 98233

Bellingham WA Microbiology

800.755.9295 • 360.757.1400 360.671.0688

Portland OR Microbiology/Chemistry

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070

Page 1 of 1

Data Report

Client Name: NW HydroGeo Consultants

1941 Lk Whatcom Blvd B-3 #113

Bellingham, WA 98229

Reference Number: 11-11361

Project: Conway Feed 2K1004-1

Report Date: 8/16/11

Date Received: 7/22/11

Reviewed by:

Sample Date: 7/22/11 9:20 am Sample Description: 1-Lead - Pit Collected By: Mr. Doug Dillenberger Lab Number: 24929 Analyzed Analyst Batch Comment DF Method CAS ID# Parameter Result PQL MDL Units 0.032 0.0005 4.19E-05 200.8/3010A MVP 200.8_110729WW 7439-92-1 LEAD 7/29/11



1620 S Watnut St - 98233

800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA Microbiology

9150 SW Pioneer Ct Ste W- 97070 805 Orchard Dr Ste 4 - 98225 503.682.7802

Portland OR Microbiology/Chemistry

Page 1 of 1

Hydrocarbon Data Report

Client Name: NW HydroGeo Consultants

1941 Lk Whatcom Blvd B-3 #113

Bellingham, WA 98229

Reference Number: 11-11361

Project: Conway Feed 2K1004-1

Report Date: 8/16/11 Date Received: 7/22/11

Peer Review:

Sample Description: 2-BTEX - Pit

Lab Number: 24930

Date 8/3/11

Sample Date: 7/22/11

Collected By: Mr. Doug Dillenberger

Analyzed By: HY

Cleanup MDL Result Level PQL Units Method Batch Comment Parameter Flag DF BENZENE 0.005 0.0004 0.00019 mg/L 8260B/5030B BTEXW_110803 2 mg/L 8260B/5030B BTEXW_110803 500 1.00 0.2000 0.1 TOLUENE 0.0004 0.70 0.0004 0.00021 mg/L 8260B/5030B BTEXW_110803 **ETHYLBENZENE** 0.0009 1.00 0.0008 0.00027 mg/L 8260B/5030B BTEXW_110803 **TOTAL XYLENES**

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions

Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001



Burlington WA

Corporate Office 1620 S Walnut St - 98233

800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA Microbiology Portland OR Microbiology/Chemistry

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 360 671.0688 503.682.7802

Page 1 of 4



Laboratory Fortified Blank

Reference Number: 11-11361

Report Date: 08/16/11

			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
200.8_110729WV	LEAD	0.040	0.040	mg/L	200.8	100	85-115	LFB	
BTEXW_110803	BENZENE	0.0037	0.004	mg/L	8260B	93	80-120	LFB	
	d8-TOLUENE (Surr)	105		%	8260B				
	ETHYLBENZENE	0.0037	0.004	mg/L	8260B	93	80-120		
	TOLUENE	0.0036	0.004	mg/L	8260B	90	80-120		
	TOTAL XYLENES	0.0103	0.012	mg/L	8260B	86	80-120		

*Notation:

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Bellingham WA Microbiology

Portland OR Microbiology/Chemistry

1620 S Walnut St - 98233 800.755.9295 • 360.757.1400 360.671.0688

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 2 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 11-11361

Report Date: 08/16/11

			True			%		QC	
Batch	Analyte	Result	Value	Units	Method	Recovery	Limits	Qualifier Type*	Comment
200.8_110729WV	LEAD	ND		mg/L	200.8		0.00050	LRB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



1620 S Walnut St - 98233

Bellingham WA Microbiology

800.755.9295 • 360.757.1400 360.671.0688

Portland OR Microbiology/Chemistry

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 503.682.7802

Page 3 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 11-11361

Report Date: 08/16/11

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Limits	Qualifier Type*	Comment
200.8_110729WV	LEAD	ND		mg/L	200.8	0.00050	MB	
BTEXW_110803	BENZENE	ND		mg/L	8260B	0.00013	МВ	
	d8-TOLUENE (Surr)	100		%	8260B			
	ETHYLBENZENE	ND		mg/L	8260B	0.00013		
	TOLUENE	ND		mg/L	8260B	0.00013		
	TOTAL XYLENES	ND		mg/L	8260B	0.00013	i .	

[%] Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Burlington WA Corporate Office 1620 S Walnut St - 98233

800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA Microbiology

Microbiology/Chemistry 805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070

Portland OR

503.682.7802

Page 4 of 4



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 11-11361

Report Date: 08/16/11

			True			%	QC	
Batch	Analyte	Result	Value	Units	Method	Recovery Lim	its Qualifier Type*	Comment
200.8_110729WV	LEAD	0.037	0.040	mg/L	200.8	93 85-	115 QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.



Burlington WA Corporate Office 1620 S Walnut St - 98233

800.755.9295 • 360.757.1400 360.671.0688

Bellingham WA Microbiology Portland OR Microbiology/Chemistry

805 Orchard Dr Ste 4 - 98225 9150 SW Pioneer Ct Ste W- 97070 360 671 0688 503 682 7802



Page 1 of 2

SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 11-11361 Report Date: 8/16/2011

Duplicate

			Duplicate				ac
Batch	Sample Analyte	Result	Result	Units	%RPD	Limits	Qualifier Type Comments
200.8_11	0729WW						
	25281 LEAD	0.003	0.003	mg/L	0.0	0-20	DUP



Page 2 of 2

Reference Number: 11-11361

Report Date: 8/16/2011

Matrix Spike

Matrix Sp	oike				Duplicate	•									
				Spike	Spike	Spike		Percent	Recovery				QC		
Batch	Sample	Analyte	Result	Result	Result	Conc	Units	MS	MSD	Limits	%RPD	Limits	Qualifier	Туре	Comments
200.8_110729\	٧W														
	24616	LEAD	ND	0.053		0.050	mg/L	106		70-130	NA	0-50		LFM	
	25281	LEAD	0.003	0.051		0.050	mg/L	96		70-130	NA	0-50		LFM	
BTEXW_11080)3														
	24930	BENZENE	ND	2.0		2	mg/L	100	NA	70-130	NA	0-60		LFM	
	24930	TOLUENE	2	3.8		2	mg/L	90	NA	70-130	NA	0-60		LFM	
	24930	ETHYLBENZENE	0.0004	2.1		2	mg/L	105	NA	70-130	NA	0-60		LFM	
	24930	TOTAL XYLENES	0.0009	5.7		6	mg/L	95	NA	70-130	NA	0-60		LFM	
	24930	d8-TOLUENE (Surr)	112	104			%		NA		NA			LFM	







QUALITY CONTROL REPORT SURROGATE REPORT

Reference Number: 11-11361

Report Date: 08/16/11

Lab No	Analyte	Result Qualifier	Units	Method	Limit
BTEXW_110803 24930	d8-TOLUENE (Surr)	112	%	8260B	Acceptance Range: 50-150%

FILE: NW HYDROGED CONSULTANTS

Processes	DOWG DI	USTODY /	ANAL	YSIS	REQ	UEST	(PLEAS	SE COMP	LETE ALL	- APPLIC	ABI F SH	1SULT	Ante		
ADDRESS: 1	MU ITY	LLENBERGER DROGEO CON DHATCOM BLVD	SULTANT	BILLT	o: Scor mo	KMAHT	Gener	ral Ma	mager	1	FOR LA	B USE ON	LY	¬ P	AGEOF
		100	#110	AUURE	ESS: 1870	2 mai	in Str	of t		REF#		11			
	ипанат	STATE: WA Z	P: 98220	CITY:	Conwai		STATE: WE		8138	_				4	ANALYTICAL LABORATORIES
ATTN: DI	046	21.0		PHONE	360.	445-	FAX:				CK REGUL			1	Corporate
PHONE: OU	734-40	155FAX: 360.	7689	P.O.#:		110	ATTN: S	mckru		1 11		NKING WA		16 Bu	20 South Walnut St. rlington, WA 98233
EMAIL: JOU	100 date	alinkwest. Co	m	□vis	A DMC		VE F	YNCKIU. Expires	alt	H		ATER ACT			1.800.755.9295
PROJECT NAM	ME: COMUR	I FEED 2KIDI	04-1	CARD#				LATINES .			RCRA /	CERCLA	i		Microbiology
-1LE: 7	nur Hud	ro Geo Cons	ultar	115							OTHER	11	-11	305	V. Orchard Dr. Suite 4 ham, WA 98225
										ANALY	SIS RE	''	24929 - 24	301	76H, WA 90225
- DE SPEC	E LINE PER SAM CIFIC IN TEST RE	OLIECTO		TANDARI	ME REQUIR	ED		2					1	1 1 4	
. MEW LIST	T EACH METAL I	NOW/IDLIALLY NEW			D = (50% SUR(CHARGE!		P						CONTAINERS	
FOR EAC	CH SAMPLE LOC	O BE PERFORMED ATION.		UICKEST	(100% SURCHA	RGE) PHONE	CALL REQ.	Ŝ.						NTAI	
. ENTER N	NUMBER OF CON	TAINERS.	□ E	MERGEN	CY (PHONE (CALL REC	QUIRED)	1	\ \					S	
SA	AMPLE ID	LOCATION		GRAB/	SAMPLE	DATE	Tues	ALTERNATION OF THE PARTY OF THE	STEX					ER O	
		PIT		Сомр.	MATRIX*	DATE	TIME	₩	Ω					NUMBE	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
(2)			-		Water	07/22	9.20				П	П			
-		B 11			11	11	"	1				П			No field Blanks
							/						H	$H \vdash$	
			_			5	}					H	H	$H \vdash$	
											$\overline{\Box}$	H		$H \vdash$	
	-										F I	H	Ы	$H \vdash$	
			_								Fi I		H	$H \vdash$	
											$\overline{\sqcap}$			\vdash	
MPLED BY:	DOUG	0.00		3/2/9								H		$H \vdash$	
MPI E PEOF	DILLENBER	KAER	PHON	E: 73	4-4958	5 FAX:	734-	7489	Ема	IL: I MA	ce@do	talia b	244.01.4		47
TE KECE	REQUESTED	(MUST INCLUDE FAX	OR EMAIL)	□ *v	N- WATER	:	SW-SURFAC	E WATER	WW- was	TE WATER	OL-OIL	MUNICA	ewest.	com	▼ TOTAL CONTAINERS
NQUISHED	- Diversity				OW-DRINKING V	WATER (GW) GROUND	WATER	S-soil	- maren	OTHER		i)	6	
HOUSHED		111	DATE	TIME	RECEIVED B	Y			DATE	TIME	Cus	TOD:		() (YES NO N/A
key	Sell.	In !	04/22/11 11	1,217				-		TIME		TODY SEA			
rud p	iliange	RGER	7/1 /10	40		^				-	SAMI	PLE TEMP	-11 °	C SATISFACTO	DRY 🗗 🗆
/	- ingc					1 1	6				SAME	PLES REC	EIVED IN	TACT	N C
	/			1	6	1 11			1					LABELS AGRE	