

Limited Site Investigation

**Ute Highway Water Treatment Plant
4651 & 4652 Ute Highway
Boulder County, Colorado**

January 3, 2012
Terracon Project No. 22117004



Prepared for:
City of Longmont
Department of Public Works & Natural Resources
Longmont, Colorado

Prepared by:
Terracon Consultants, Inc.
Fort Collins, Colorado

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

January 3, 2012



City of Longmont
Public Works & Natural Resources
385 Kimbark Street
Longmont, Colorado 80501

Attn: Mr. Larry Wyeno
P: 303-651-8628
E: larry.wyeno@ci.longmont.co.us

Re: Limited Site Investigation
4651 & 4652 Ute Highway
Boulder County, Colorado
Terracon Project No. 22117004

Dear Mr. Wyeno:

Terracon Consultants, Inc. (Terracon) is pleased to submit our report of Limited Site Investigation (LSI) activities completed at the site referenced above. The report presents data from recent field activities that included the collection of soil and water samples for chemical analysis, as well as PCB analysis on stained concrete. The activities were completed to address the findings of the Phase I Environmental Site Assessment (ESA) of the property dated October 3, 2011. Terracon conducted the LSI in general accordance with our proposal (P20110237) dated October 10, 2011 and your notice to proceed dated October 19, 2011.

Terracon appreciates this opportunity to provide environmental engineering services to the City of Longmont. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.

A blue ink signature of Craig L. Nelson, consisting of a stylized 'C' and 'N'.

Craig L. Nelson
Environmental Scientist

A blue ink signature of Dana L. Harris, featuring a stylized 'D' and 'H'.

Dana L. Harris
Dept. Manager, Environmental Services



TABLE OF CONTENTS



1.0	SITE DESCRIPTION.....	1
2.0	SCOPE OF SERVICES	2
3.0	FIELD INVESTIGATION.....	3
4.0	RESULTS OF THE FIELD INVESTIGATION.....	5
4.1	Geology/Hydrogeology	5
4.2	Field Screening	5
5.0	ANALYTICAL RESULTS	5
5.1	Soil Sample Results	5
5.2	Groundwater Sample Results	6
5.3	PCB-Wipe Sample Results.....	6
6.0	CONCLUSIONS.....	6
7.0	RECOMMENDATIONS.....	7

APPENDIX A – EXHIBITS

- Exhibit 1 – Topographic Map
- Exhibit 2 – Site Diagram

APPENDIX B – TABLES

APPENDIX C – ANALYTICAL REPORT AND CHAIN OF CUSTODY

APPENDIX D – STANDARD OF CARE AND ADDITIONAL SCOPE LIMITATIONS

**LIMITED SITE INVESTIGATION
Ute Highway Water Treatment Plant
4651 & 4652 Ute Highway
Boulder County, Colorado**

**Terracon Project No. 22117004
January 3, 2012**

1.0 SITE DESCRIPTION

The site is a former water treatment plant located at 4651 and 4652 Ute Highway, southeast of Lyons, Boulder County, Colorado. The water treatment plant facility is separated into two parcels that are divided by Ute Highway (SH 66) into the North Plant and South Plant. The South Plant was built in 1934 with additions and renovations in the 1950's and 1970's. An equipment storage building was built at the South Plant in 2004. The North Plant was built in 1967 with two additional site buildings constructed in the 1970's and 1980's. Both water treatment plants ceased operations in 2005 and are now used for storage and equipment spare parts. Most of the facilities' structures, containers, and equipment are still in place. A Topographic Map showing the site location is included as Exhibit 1 and a Site Diagram for the North Plant is included as Exhibit 2A in Appendix A.

Terracon performed a Phase I Environmental Site Assessment (ESA) of the Ute Highway Water Treatment Plant located at 4651 and 4652 Ute Highway in Boulder County, Colorado (final Phase I ESA report dated October 3, 2011, (Terracon Project No. 22117704). Terracon's Phase I ESA findings indicated:

- While in operation the treatment plants used large quantities of pH adjusters, flocculants, fluoride, and chlorine-source materials to produce drinking water from raw water of the St Vrain Creek Watershed. Smaller quantities of hazardous substances and petroleum products were used to operate, maintain, and clean the equipment used to operate the plants. Reportedly, the Maintenance Building located in the eastern portion of the North Plant is where the operations equipment was serviced. Terracon observed a floor drain in the Maintenance Building which reportedly was connected to a site perimeter drain system. Based on the length of time the Maintenance Building has been in place, building use, possible presence and use of hazardous materials and petroleum products identified from MSDS information, and proximity of observed hazardous materials and petroleum products, discharges to the interior floor drain in the Maintenance Building at the North Plant are considered a REC;
- The backwash ponds located on the North Plant are considered a REC due to the potential for naturally occurring elements and compounds to have been concentrated through the backwash process and accumulated in the pond bottoms, due to the

Limited Site Investigation

Ute Highway Water Treatment Plant ■ Boulder County, Colorado

January 3, 2012 ■ Terracon Project No. 22117004



potential for process-added compounds to have accumulated in the pond bottoms, and due to the potential for leaching to occur under the ponds; and

- Terracon observed staining on the concrete floor under a hydraulic elevator fluid reservoir in the South Plant filtration building. The elevator pit was not accessible for a visual assessment. Based on the age of the building, the hydraulic fluid used in the elevator system may have contained PCBs. Based on the staining observed and the potential for PCBs, this elevator is considered a REC.

The objective of the Limited Site Investigation (LSI) was to conduct an initial assessment of subsurface soil and groundwater conditions in the vicinity of the RECs identified at the North Plant and to conduct an initial assessment for PCBs on concrete below the observed elevator hydraulic fluid release.

2.0 SCOPE OF SERVICES

Terracon's LSI was undertaken in response to the results of our Phase I ESA report dated October 3, 2011 (Terracon Project No. 22117704).

Terracon completed the following scope of services:

- Conducted an initial assessment of subsurface soils and groundwater for releases associated with the North Plant Maintenance Building floor drain;
- Conducted an initial assessment of near-surface soils/sediment and underlying groundwater for releases associated with the two backwash ponds at the North Plant; and
- Conducted an initial assessment for the presence of PCBs in stained concrete associated with the South Plant Filtration Building hydraulic elevator.

The LSI was conducted to determine the presence or absence of indicator contaminants associated with the RECs identified by the Phase I ESA. The scope of services was not intended to identify every chemical possibly associated with the site. Similarly, the proposed scope was not intended to determine the extent or magnitude of any existing contamination.

This report has been prepared for the exclusive use of the City of Longmont, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of the City of Longmont and Terracon. Any unauthorized distribution or reuse is at the City of Longmont's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, LSI report, and Terracon's Agreement for Services. The limitation of liability defined in the terms and conditions is the aggregate limit of

Terracon's liability to the City of Longmont and all relying parties unless otherwise agreed in writing.

3.0 FIELD INVESTIGATION

Soil and Groundwater Sampling

Terracon developed a site health and safety plan for use by our personnel during field services. All personnel in the work area used United States Environmental Protection Agency (USEPA) Level D work uniforms consisting of hard hats, safety glasses, protective gloves, and steel-toed boots. Terracon contacted the local utility marking service and request location and markings for all utilities that the utility markout service is responsible for before commencing drilling at the site.

On November 8, 2011, Terracon advanced three soil borings in the vicinity of the North Plant Maintenance Building (borings GB-3, GB-4, and GB-5) using direct-push technology provided by a truck-mounted Geoprobe® rig. Two additional borings located near the edge of the backwash ponds (borings GB-1 and GB-2) were driven directly to groundwater. Shallow near-surface pond soil/sludge samples were collected manually using a hand scoop (samples GB-1/soil and GB-2/soil), which was washed/decontaminated using Alconox® detergent wash between sample locations. Boring and sample locations are shown on Figure 2A in Appendix A.

Terracon field screened soil samples using a photoionization detector (PID). This device provides a direct reading in parts per million isobutylene equivalents. Upon removal of the sampler from the borehole, Terracon placed a portion of the sample in a sealable bag. After a stabilization period, Terracon screened the headspace above the soil using the PID equipped with a 10.6 electron-volt ultraviolet lamp source.

For the two pond soil/sediment sampling locations (GB-1/soil and GB-2/soil), soil/sediment samples were collected from a depth of six inches below grade. For soil borings GB-3, GB-4, and GB-5, soil samples were collected at each boring based on the zone exhibiting the highest PID readings. When, based on field screening observations, no elevated PID reading is observed, the sample was collected from the capillary fringe zone, from the interval exhibiting a change in lithology, from the bottom of the boring, or from the interval of most likely environmental impact as determined in the field by the sampling professional.

Groundwater samples were collected from temporary well casings. Groundwater samples were collected by peristaltic pump. Groundwater samples for metals analysis were collected in unpreserved bottles to be filtered at the selected laboratory. Upon completion of groundwater sampling, the temporary well casings were removed and the borings were backfilled by adding bentonite pellets to the ground surface and hydrating.

Limited Site Investigation

Ute Highway Water Treatment Plant ■ Boulder County, Colorado

January 3, 2012 ■ Terracon Project No. 22117004



PCB-Sampling

On November 8, 2011, Terracon collected one PCB wipe-sample from the area of stained concrete that was observed near the hydraulic fluid reservoir at the South Plant . The wipe sample was collected in general accordance with the sampling procedure described in the U.S. Environmental Protection Agency's "Wipe Sampling And Double Wash/Rinse Cleanup As Recommended By The Environmental Protection Agency PCB Spill Cleanup Policy" dated June 23, 1987, Revised and Clarified on April 18, 1991.

After packaging each sample, Terracon recorded the sample time on each container label in permanent ink and placed the filled containers in an ice-filled cooler for transport to the selected laboratory under chain-of-custody procedures.

LSI Laboratory Services

The samples were analyzed per the table below.

Analysis	Sample Type	No. of Samples	Laboratory Method
North Plant Maintenance Building			
VOCs	Soil	3	EPA Method 8260
VOCs	Water	3	EPA Method 8260
Oil & Grease	Soil	3	EPA Method 9071
Oil & Grease	Water	3	EPA Method 1664
RCRA 8 Metals	Soil	3	EPA Method 6010/7000
RCRA 8 Metals - Dissolved	Water	2	EPA Method 6010/7000
North Plant Ponds			
TAL 23 Metals	Soil/Sediment	2	EPA Method 6010/7000
TAL 23 Metals - Dissolved	Water	2	EPA Method 6010/7000
Sulfate	Water	2	EPA Method 300
South Plant Filtration Building Elevator Hydraulic Fluid Release			
PCBs	Wipe	1	EPA Method 8082

4.0 RESULTS OF THE FIELD INVESTIGATION

4.1 Geology/Hydrogeology

In general, for areas GB-3, GB-4 and GB-5 Terracon encountered material consisting of silty sand moving to sandy gravel at the bottom of the borings at approximately 12 feet below the surface. Terracon encountered groundwater at a depth of approximately 9 feet below ground surface (bgs). For the shallow samples from the ponds (GB-1/soil and GB-2/soil), soils consisted of a silty sand.

4.2 Field Screening

Elevated PID readings were not detected in soil collected from sample areas GB-1, GB-2, GB-3, GB-4 and GB-5, with PID readings ranging from 0.1 to 12.4 parts per million (ppm). Terracon did not observe any visual or olfactory evidence of contaminated material in the samples collected. PID readings are summarized on Table 1 in Appendix B.

5.0 ANALYTICAL RESULTS

Laboratory analytical results are summarized on Tables 2 through 6 in Appendix B. The laboratory analytical report and chain-of-custody record are attached in Appendix C. The following sections describe the results of the testing.

5.1 Soil Sample Results

Laboratory analytical results for the soil samples were compared to applicable action levels.

- Aluminum, barium, beryllium, calcium chromium, copper, iron, lead, magnesium, manganese, nickel, potassium and vanadium in soil samples GB-1 and GB-2 were present above laboratory reporting limits. With the exception of aluminum, the concentrations of these metals generally appeared to be within the range of naturally occurring background metals for the Lyons area, and these concentrations were below their respective Colorado Soil Evaluation Values (CSEVs) or EPA Risk Screening Levels (RSLs). The aluminum concentrations in soil sample GB-1 and GB-2 of 172,000 milligrams per kilogram (mg/kg) and 165,000 mg/kg exceeded the typical background level of 50,000 mg/kg for the Lyons area and the CSEV of 70,000 mg/kg (residential use).
- Arsenic, barium, chromium and lead in soil samples GB-3, GB-4 and GB-5 were present above laboratory reporting limits. With the exception of arsenic, these

metals concentrations were less than their respective CSEVs. However, the concentrations of each of these metals, including arsenic, generally appeared to be within the range of naturally occurring background metals for the Lyons area. VOCs and oil and grease were not present above laboratory reporting limits in these three soil samples.

5.2 Groundwater Sample Results

Laboratory analytical results for the groundwater samples were compared to applicable action levels.

- Several dissolved metals were present above laboratory detection limits; however, only manganese was reported at concentrations exceeding Colorado Ground Water Standards (GWS). The concentrations of dissolved manganese reported for groundwater samples GB-1 and GB-2 were 1,140 micrograms per liter ($\mu\text{g/l}$) and 443 $\mu\text{g/l}$, respectively, which exceed the Colorado GWS of 50 $\mu\text{g/l}$. The dissolved manganese concentration of 1,140 $\mu\text{g/l}$ for sample GB-1 also exceeds the EPA RSL of 880 $\mu\text{g/l}$. In addition, one or both concentrations exceed the reported typical background concentrations for manganese of less than 1.0 $\mu\text{g/l}$ to 1,000 $\mu\text{g/l}$ for groundwaters of the United States.
- Groundwater sample GB-4 could not be analyzed for dissolved metals due to limited sample volume in the well. Dissolved barium was the only target metal detected above laboratory reporting limits in groundwater samples GB-3 and GB-5. The reported dissolved barium concentrations were less than the Colorado GWS. VOCs and oil and grease were not detected above laboratory reporting limits for the groundwater samples BG-3, GB-4, or GB-5.

5.3 PCB-Wipe Sample Results

- The PCB Arochlor 1242 was detected in sample PCB W-6 at a concentration of 6.3 micrograms per 100 square centimeters ($\mu\text{g}/100\text{ cm}^2$), which is less than the federal cleanup level of 10 $\mu\text{g}/100\text{ cm}^2$.

6.0 CONCLUSIONS

Based on the scope of services described in this report and subject to the limitations described herein, Terracon concludes the following.

- Based on the field screening observations and results of soil and groundwater sampling from GB-3, GB-4, and GB-5, this LSI did not identify evidence of

releases of petroleum hydrocarbons, metals, or VOCs to the floor drain at the North Plant Maintenance Building.

- Based on results of soil and groundwater sampling at the backwash settling ponds, this LSI identified elevated metals in soils and groundwater under the ponds. Aluminum concentrations from shallow soils in each pond exceeded typical background and the Colorado standard for aluminum in soils. Dissolved manganese in groundwater samples from each pond exceeded the Colorado groundwater standard for manganese, and one or both sample concentrations exceeds reported typical background ranges for manganese in groundwaters of the United States. It is unclear whether the use of a temporary well during sampling may have influenced the dissolved metals laboratory results; in order to further assess this potential influence, it would be necessary to install and develop permanent monitoring wells and re-sample.
- The stained concrete slab in the South Plant Filtration Building, hydraulic elevator was contaminated with the PCB Arochlor 1242. Although the PCB contamination was less than the EPA cleanup level, it does suggest that PCBs have been present in hydraulic fluids in the elevator system. Because Terracon has been unable to access the interior of the elevator system to assess the potential for releases to have occurred to the building or subsurface, the presence of PCBs in the elevator's hydraulic fluid makes this limitation of the environmental assessment more significant.

7.0 RECOMMENDATIONS

Based on the findings of this LSI, Terracon recommends the following.

- With respect to the RECs identified during the Phase I ESA at the North Plant Maintenance Building, no further action appears to be warranted at this time.
- Regarding the backwash settling ponds, additional assessment of soils and groundwater may be warranted, and remediation may be warranted. Terracon understands that the future use and/or redevelopment of the site has not been decided; however, future plans for the facility should be considered when planning additional environmental assessment or remediation. If eligible for the program, the Colorado Voluntary Cleanup (VCUP) Program may provide an appropriate means to obtaining a formal regulatory approval for remedial actions.

Limited Site Investigation

Ute Highway Water Treatment Plant ■ Boulder County, Colorado

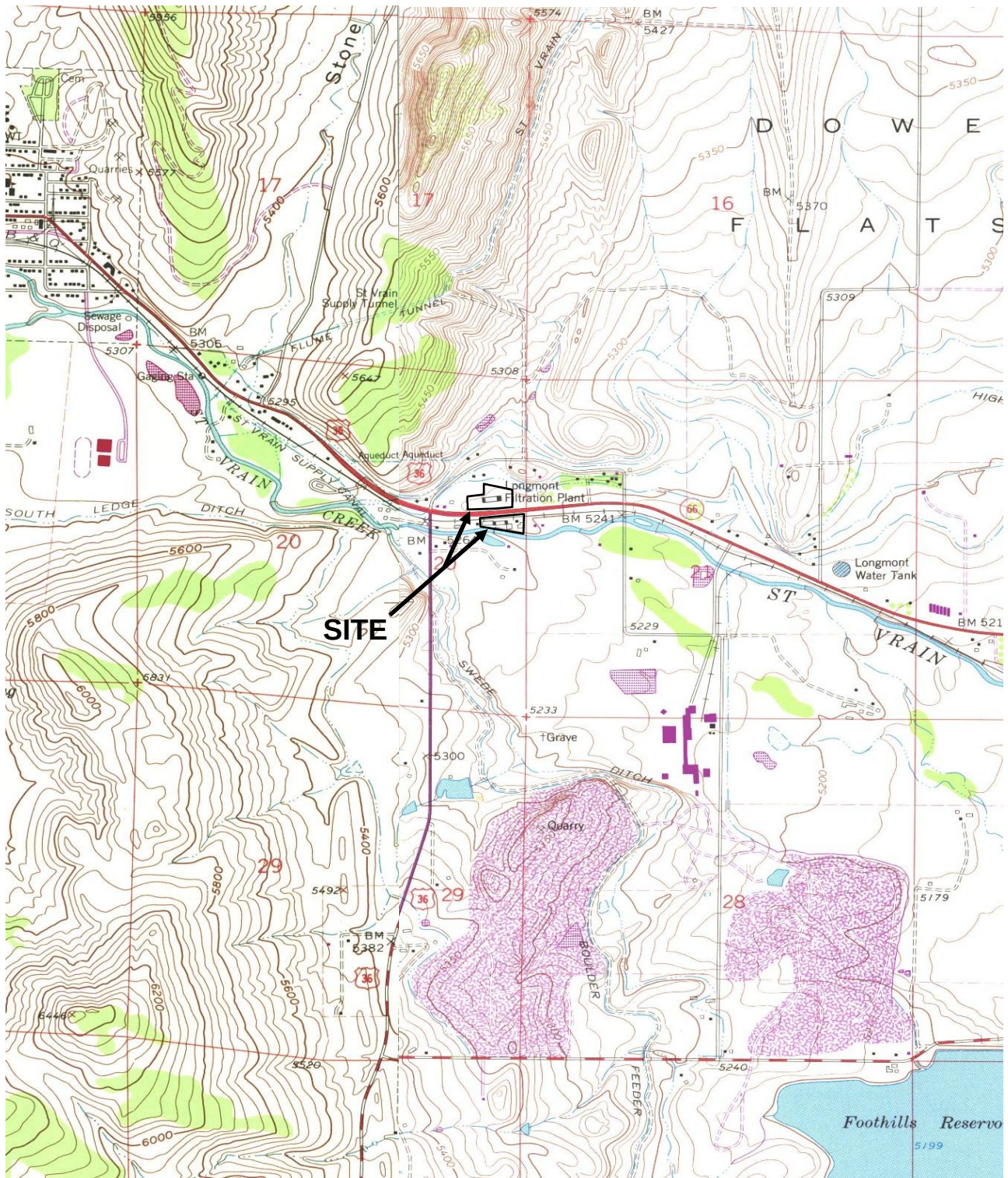
January 3, 2012 ■ Terracon Project No. 22117004



Colorado has release reporting requirements which may apply to the results of this LSI.

- The South Plant Filtration Building elevator should be assessed for potential releases of hydraulic fluid and PCBs to the building or subsurface.

APPENDIX A – EXHIBITS



Source: USGS 7.5-Minute Series Topographic Maps:
Hygiene and Lyons, Colorado Quadrangle

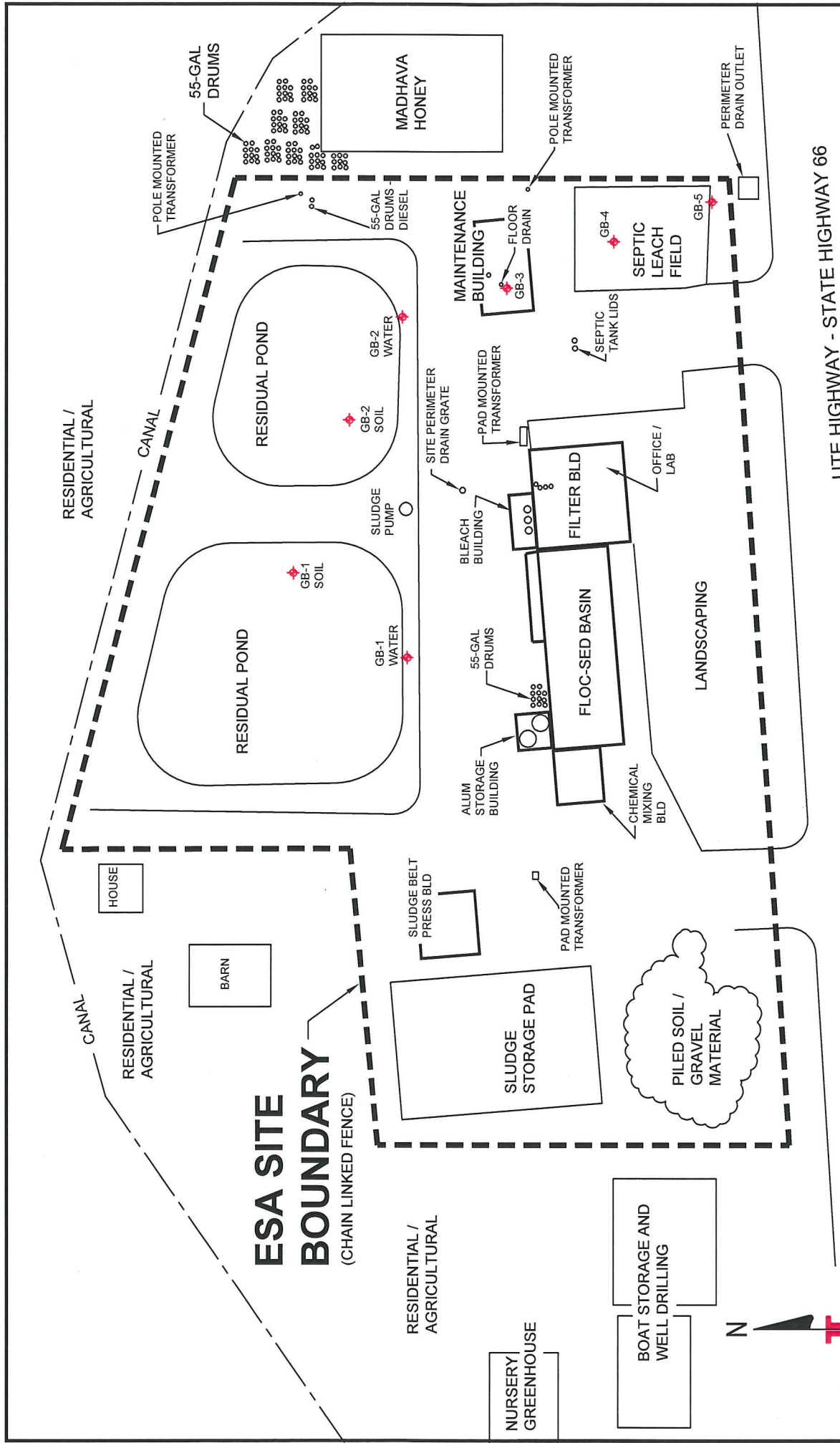


NORTH

Exhibit 1
TOPOGRAPHIC MAP
Published: 1968
Photorevised: 1979 / 1978
SCALE: 1" ~ 2,000'

Terracon

Longmont Public Works & Natural Res.
Ute Hwy Water Treatment Plant
Limited Site Investigation
Lyons, Boulder County, Colorado
Project No. 22117004



GB-4 = SAMPLE LOCATION

UTE HIGHWAY - STATE HIGHWAY 66

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

EXHIBIT 2A									
LSI SAMPLE LOCATION - NORTH PLANT CITY OF LONGMONT - PUBLIC WORKS & NATURAL RESOURCES UTE HWY WATER TREATMENT PLANT 4651 UTE HWY (NORTH) & 4652 UTE HWY (SOUTH) BOULDER COUNTY COLORADO									
Consulting Engineers and Scientists 1242 BRAMWOOD PLACE LONGMONT, CO 80501 PH: (303) 776-3921 FAX: (303) 775-4041									
Project No. 22117004 Scale: 1" = 100' File No. N/PROJECTS2011 Date: 12/1/2011	<table border="1"> <tr> <td>Project Mgr:</td> <td>DLH</td> </tr> <tr> <td>Drawn By:</td> <td>EAB</td> </tr> <tr> <td>Checked By:</td> <td>CLN</td> </tr> <tr> <td>Approved By:</td> <td>DLH</td> </tr> </table>	Project Mgr:	DLH	Drawn By:	EAB	Checked By:	CLN	Approved By:	DLH
Project Mgr:	DLH								
Drawn By:	EAB								
Checked By:	CLN								
Approved By:	DLH								



APPENDIX B - TABLES

TABLE 1
SUMMARY OF ATHA RESULTS

PROJECT NAME: Ute Highway Water Treatment Plant			
PROJECT LOCATION: 4651 & 4652 Ute Highway, Boulder County, Colorado			
PROJECT NUMBER: 22117004			
Boring Name	Sample Date	Depth (feet)	PID Reading (ppm)
GB-1	11/8/2011	0.5	0.2
GB-2	11/8/2011	0.5	0.1
GB-3	11/8/2011	0-2	8.2
GB-3	11/8/2011	2-4	2.5
GB-3	11/8/2011	4-6	5.9
GB-3	11/8/2011	6-8	2.6
GB-4	11/8/2011	0-2.5	2.3
GB-4	11/8/2011	2.5-3	1.9
GB-4	11/8/2011	7-9	2.3
GB-4	11/8/2011	9-11	2.5
GB-5	11/8/2011	9-11	12.4

Notes:

PID = Photoionization Detector

ppm = parts per million

TABLE 2

SUMMARY OF SOIL ANALYTICAL RESULTS - SETTLING PONDS

PROJECT NAME: Ute Highway Water Treatment Plant**PROJECT LOCATION:** 4651 & 4652 Ute Highway, Boulder County, Colorado**PROJECT No.** 22117004

Sample Number	GB-1	GB-2	Cleanup Limit		Background Levels
Date Sampled	11/8/2011	11/8/2011	RSL	CSEV	
Aluminum (mg/kg)	172000	165000		77000	50000
Antimony (mg/kg)	<12.0	<7.9		31	<1
Arsenic (mg/kg)	<12.0	<7.9		0.39	6.5
Barium (mg/kg)	48.7	55.2		15000	700.0
Beryllium (mg/kg)	1.6	1.5		160	1.5-2.0
Cadmium (mg/kg)	<6.0	<4.0		70	BLS
Calcium (mg/kg)	2220	3070		NS	7900
Chromium (mg/kg)	16.1	15		120000	30.0
Cobalt (mg/kg)	<6.0	<4.0		23	7.0
Copper (mg/kg)	146	174		3100	20.0
Iron (mg/kg)	15800	15500		55000	30000
Lead (mg/kg)	6.6	6.5		400	15.0
Magnesium (mg/kg)	1250	1260		NS	10000
Manganese (mg/kg)	276	332		9200	300.0
Mercury (mg/kg)	ND	ND		13.0	0.032
Nickel (mg/kg)	6.6	8		1500	15.0
Potassium (mg/kg)	2400	1130		NS	20000
Selenium (mg/kg)	<18.1	<11.9		390	0.1

Silver (mg/kg)	<8.4	<5.5		390	BLS
Sodium (mg/kg)	<602	<395		NS	10000
Thallium (mg/kg)	<24.1	<15.8	0.78		BLS
Vanadium (mg/kg)	19	19.7		390	70.0
Zinc (mg/kg)	<120	<79.0		23000	74.0

Notes:

CSEV = Colorado Department of Public Health and Environment,
Hazardous Materials (CDPHE) and Waste Management Division, Colorado
Soil Evaluation Values (CSEV) – December 2007

RSL = United States Environmental Protection Agency (EPA), Regional
Screening Levels, June 2011.

NS = Cleanup level not specified for compound.

BLS = Background levels not specified for compound.

mg/kg = milligrams per kilogram

Bold = above cleanup limits

Background Levels = Background metals concentrations from Elemental
Concentrations in Soils and Other Surficial Materials of the Conterminous
United States, U.S. Geological Survey Professional Paper 1270, by
Hansford T. Shacklette and Josephine G. Boerngen, 1984.

TABLE 3

SUMMARY OF SOIL ANALYTICAL RESULTS - MAINTENANCE SHOP AREA

PROJECT NAME: Ute Highway Water Treatment Plant

PROJECT LOCATION: 4651 & 4652 Ute Highway, Boulder County, Colorado

PROJECT No. 22117004

Sample Number	GB-3	GB-4	GB-5	Cleanup Limit	Background Levels
Date Sampled	11/8/2011	11/8/2011	11/8/2011	CSEV	
Depth (Feet)	6-8	9-11	9-11		
Arsenic (mg/kg)	1.2	1.7	0.97	0.39	6.5
Barium (mg/kg)	69.0	58.2	79.0	15000	700.0
Cadmium (mg/kg)	<0.53	<0.57	<0.48	70	BLS
Chromium (mg/kg)	12.1	10	7.0	120000	30.0
Lead (mg/kg)	5.0	4.5	3.4	400	15.0
Mercury (mg/kg)	<0.048	<0.038	<0.038	13.0	0.032
Selenium (mg/kg)	<1.6	<1.5	<1.5	390	0.1
Silver (mg/kg)	<0.74	<0.68	<0.68	390	BLS
VOCs (ug/kg)	ND	ND	ND	—	N/A
Oil & Grease (mg/kg)	<234	<234	<225	500	N/A

Notes:

N/A = Not Applicable

BLS = Background levels not specified for compound.

CSEV = Colorado Department of Public Health and Environment, Hazardous Materials (CDPHE) and Waste Management Division, Colorado Soil Evaluation Values (CSEV) – December 2007

mg/kg = milligrams per kilogram, ug/L = micrograms per liter

Bold = above cleanup limits

Background Levels = Background metals concentrations from Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270, by Hansford T. Shacklette and Josephine G. Boerngen, 1984.

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - SETTLING BASINS

PROJECT NAME: Ute Highway Water Treatment Plant

PROJECT LOCATION: 4651 & 4652 Ute Highway, Boulder County, Colorado

PROJECT No. 22117004

Sample Number	GB-1	GB-2	Cleanup Limit		
Date Sampled	11/8/2011	11/8/2011	CGS	MCL	RSL
Aluminum (ug/L)	<75.0	<75.0			37000
Antimony (ug/L)	<10	<10	6		
Arsenic (ug/L)	<10	<10	10		
Barium (ug/L)	147	149	2000		
Beryllium (ug/L)	<1.0	<1.0	4		
Cadmium (ug/L)	<5.0	<5.0	5		
Calcium (ug/L)	26300	30400			NS
Chromium (ug/L)	<5.0	<5.0	100		
Cobalt (ug/L)	<5.0	<5.0			11
Copper (ug/L)	<10	<10	1,000		
Iron (ug/L)	<50	<50	300		
Lead (ug/L)	<5.0	<5.0		15	
Magnesium (ug/L)	4570	5630			NS
Manganese (ug/L)	1140	443	50		
Mercury (ug/L)	<0.2	<0.2	2		
Nickel (ug/L)	<5.0	<5.0	100		
Potassium (ug/L)	2400	1600			NS
Selenium (ug/L)	<15.0	<15.0	50		

Silver (ug/L)	<7.0	<7.0	50		
Sodium (ug/L)	12700	8900			NS
Sulfate (ug/L)	9000	4600	250,000		
Thallium (ug/L)	<20.0	<20.0	2		
Vanadium (ug/L)	<10	<10			180
Zinc (ug/L)	<50	<50	5,000		

Notes: Metals are reported as dissolved metals.

ug/L = micrograms per liter

Bold = Above cleanup limits.

RSL = United States Environmental Protection Agency (EPA), Regional Screening Levels, June 2011.

MCL = Maximum Contaminant Level, U.S. Environmental Protection Agency, EPA 816-F-09-0004, May 2009.

CGS = Colorado Groundwater Standards, groundwater standards from "Basic Standards of Groundwater" published by the Colorado Department of Health, Water Quality Control Commission, effective May 31, 2008. Listed values reported as drinking water maximum contaminant level.

NS = Cleanup level not specified for compound.

TABLE 5

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - MAINTENANCE SHOP AREA

PROJECT NAME: Ute Highway Water Treatment Plant**PROJECT LOCATION:** 4651 & 4652 Ute Highway, Boulder County, Colorado**PROJECT No.** 22117004

Sample Number	GB-3	GB-4	GB-5	Cleanup Limit	
Date Sampled	11/8/2011	11/8/2011	11/8/2011	CGS	MCL
VOCs (ug/L)	ND	ND	ND	—	
Oil & Grease (mg/L)	<5.0	<5.0	<5.0	NS	
Arsenic (ug/L)	<10.0	NA	<10.0	10	
Barium (ug/L)	74.1	NA	120	2000	
Cadmium (ug/L)	<5.0	NA	<5.0	5	
Chromium (ug/L)	<5.0	NA	<5.0	100	
Lead (ug/L)	<5.0	NA	<5.0		15
Mercury (ug/L)	<0.20	NA	<0.20	2	
Selenium (ug/L)	<15.0	NA	<15.0	50	
Silver (ug/L)	<7.0	NA	<7.0	50	
Notes: GB-4 was not analyzed for metals do to insufficient volume. Metals reported as dissolved metals.					

ug/L = micrograms per liter

mg/L = milligrams per liter

Bold = Above cleanup limits.

MCL =Maximum Contaminant Level, U.S. Environmental Protection Agency, EPA 816-F-09-0004, May 2009.

CGS =Colorado Groundwater Standards, groundwater standards from "Basic Standards of Groundwater" published by the Colorado Department of Health, Water Quality Control Commission, effective May 31, 2008. Listed values reported as drinking water maximum contaminant level.

NS = Cleanup level not specified for compound.

ND =Below laboratory detection limits.

NS = Cleanup level not specified for compound.

NA = Sample not analyzed for parameter.

TABLE 6**SUMMARY OF PCB ANALYTICAL RESULTS****PROJECT NAME:** Ute Highway Water Treatment Plant**PROJECT LOCATION:** 4651 & 4652 Ute Highway, Boulder County, Colorado**PROJECT No.** 22117004

Sample Number	PCB W-6	Cleanup Limit
Date Sampled	11/8/2011	
PCB 1016 (ug/100 cm ²)	ND	10 ug/100 cm ²
PCBr 1221 (ug/100 cm ²)	ND	10 ug/100 cm ²
PCB 1235 (ug/100 cm ²)	ND	10 ug/100 cm ²
PCB 1242 (ug/100 cm ²)	6.3	10 ug/100 cm ²
PCB 1248 (ug/100 cm ²)	ND	10 ug/100 cm ²
PCB 1254 (ug/100 cm ²)	ND	10 ug/100 cm ²
PCB 1260 (ug/100 cm ²)	ND	10 ug/100 cm ²
Notes:		

ND = Below laboratory detection limits.

ug/100 cm²=micrograms per 100 cm²**Bold** = above cleanup limits

APPENDIX C – ANALYTICAL REPORT AND CHAIN OF CUSTODY

November 17, 2011

Craig Nelson
Terracon Ft. Collins Colorado
301 N. Howes
Fort Collins, CO 80521

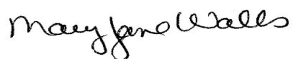
RE: Project: Ute Highway Water Treatment Pl
Pace Project No.: 60109998

Dear Craig Nelson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mary Jane Walls

maryjane.walls@pacelabs.com
Laboratory Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Page 1 of 44

PacePackage P. 1 of 46

CERTIFICATIONS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 05-008-0

Illinois Certification #: 001191

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-08-TX

Utah Certification #: 9135995665

REPORT OF LABORATORY ANALYSIS

Page 2 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE SUMMARY

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60109998001	GB-1 WATER	Water	11/08/11 10:30	11/09/11 09:20
60109998002	GB-2 WATER	Water	11/08/11 11:15	11/09/11 09:20
60109998003	GB-1 SOIL	Solid	11/08/11 10:30	11/09/11 09:20
60109998004	GB-2 SOIL	Solid	11/08/11 11:15	11/09/11 09:20
60109998005	GB-3 WATER	Water	11/08/11 08:00	11/09/11 09:20
60109998006	GB-4 WATER	Water	11/08/11 08:45	11/09/11 09:20
60109998007	GB-5 WATER	Water	11/08/11 09:40	11/09/11 09:20
60109998008	GB-3 SOIL	Solid	11/08/11 08:00	11/09/11 09:20
60109998009	GB-4 SOIL	Solid	11/08/11 08:45	11/09/11 09:20
60109998010	GB-5 SOIL	Solid	11/08/11 09:40	11/09/11 09:20
60109998011	PCB W-6	Wipe	11/08/11 11:45	11/09/11 09:20
60109998012	TRIP BLANK	Water	11/08/11 00:00	11/09/11 09:20
60109998013	TRIP BLANK	Solid	11/08/11 00:00	11/09/11 09:20

REPORT OF LABORATORY ANALYSIS

Page 3 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60109998001	GB-1 WATER	EPA 6010	SMW	22
		EPA 7470	JDH	1
		EPA 300.0	JPF	1
60109998002	GB-2 WATER	EPA 6010	SMW	22
		EPA 7470	JDH	1
		EPA 300.0	JPF	1
60109998003	GB-1 SOIL	EPA 6010	SMW	22
		EPA 7471	JDH	1
		ASTM D2974-87	DWC	1
60109998004	GB-2 SOIL	EPA 6010	SMW	22
		EPA 7471	JDH	1
		ASTM D2974-87	DWC	1
60109998005	GB-3 WATER	EPA 6010	SMW	7
		EPA 7470	JDH	1
		EPA 5030B/8260	JDM	70
		EPA 1664A	LAJ	1
60109998006	GB-4 WATER	EPA 5030B/8260	JDM	70
		EPA 1664A	LAJ	1
		EPA 6010	SMW	7
60109998007	GB-5 WATER	EPA 7470	JDH	1
		EPA 5030B/8260	JDM	70
		EPA 1664A	LAJ	1
		EPA 6010	SMW	7
60109998008	GB-3 SOIL	EPA 7471	JDH	1
		EPA 8260	RAB	69
		ASTM D2974-87	DWC	1
		EPA 9071	LAJ	1
		EPA 6010	SMW	7
60109998009	GB-4 SOIL	EPA 7471	JDH	1
		EPA 8260	RAB	69
		ASTM D2974-87	DWC	1
		EPA 9071	LAJ	1
		EPA 6010	SMW	7
60109998010	GB-5 SOIL	EPA 7471	JDH	1
		EPA 8260	RAB	69
		ASTM D2974-87	DWC	1
		EPA 9071	LAJ	1
		EPA 6010	SMW	7

REPORT OF LABORATORY ANALYSIS

Page 4 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60109998011	PCB W-6	EPA 8082	NAW	9

REPORT OF LABORATORY ANALYSIS

Page 5 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-1 WATER		Lab ID: 60109998001	Collected: 11/08/11 10:30	Received: 11/09/11 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved (LF)		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Aluminum, Dissolved	ND ug/L		75.0	1	11/14/11 14:00	11/15/11 11:39	7429-90-5	
Antimony, Dissolved	ND ug/L		10	1	11/14/11 14:00	11/15/11 11:39	7440-36-0	
Arsenic, Dissolved	ND ug/L		10	1	11/14/11 14:00	11/15/11 11:39	7440-38-2	
Barium, Dissolved	147 ug/L		10	1	11/14/11 14:00	11/15/11 11:39	7440-39-3	
Beryllium, Dissolved	ND ug/L		1.0	1	11/14/11 14:00	11/15/11 11:39	7440-41-7	
Cadmium, Dissolved	ND ug/L		5.0	1	11/14/11 14:00	11/15/11 11:39	7440-43-9	
Calcium, Dissolved	26300 ug/L		100	1	11/14/11 14:00	11/15/11 11:39	7440-70-2	
Chromium, Dissolved	ND ug/L		5.0	1	11/14/11 14:00	11/15/11 11:39	7440-47-3	B-
Cobalt, Dissolved	ND ug/L		5.0	1	11/14/11 14:00	11/15/11 11:39	7440-48-4	
Copper, Dissolved	ND ug/L		10	1	11/14/11 14:00	11/15/11 11:39	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	11/16/11 11:04	11/16/11 17:40	7439-89-6	
Lead, Dissolved	ND ug/L		5.0	1	11/14/11 14:00	11/15/11 11:39	7439-92-1	
Magnesium, Dissolved	4570 ug/L		50.0	1	11/14/11 14:00	11/15/11 11:39	7439-95-4	
Manganese, Dissolved	1140 ug/L		5.0	1	11/14/11 14:00	11/15/11 11:39	7439-96-5	B+
Nickel, Dissolved	ND ug/L		5.0	1	11/14/11 14:00	11/15/11 11:39	7440-02-0	B-
Potassium, Dissolved	2400 ug/L		500	1	11/14/11 14:00	11/15/11 11:39	7440-09-7	
Selenium, Dissolved	ND ug/L		15.0	1	11/14/11 14:00	11/15/11 11:39	7782-49-2	
Silver, Dissolved	ND ug/L		7.0	1	11/14/11 14:00	11/15/11 11:39	7440-22-4	
Sodium, Dissolved	12700 ug/L		500	1	11/14/11 14:00	11/15/11 11:39	7440-23-5	
Thallium, Dissolved	ND ug/L		20.0	1	11/14/11 14:00	11/15/11 11:39	7440-28-0	
Vanadium, Dissolved	ND ug/L		10	1	11/14/11 14:00	11/15/11 11:39	7440-62-2	
Zinc, Dissolved	ND ug/L		50.0	1	11/14/11 14:00	11/15/11 11:39	7440-66-6	
7470 Mercury, Dissolved (LF)		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND ug/L		0.20	1	11/12/11 17:05	11/15/11 09:14	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Sulfate	9.0 mg/L		1.0	1		11/15/11 20:56	14808-79-8	

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-2 WATER		Lab ID: 60109998002	Collected: 11/08/11 11:15	Received: 11/09/11 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved (LF)		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Aluminum, Dissolved	ND	ug/L	75.0	1	11/14/11 14:00	11/15/11 11:41	7429-90-5	
Antimony, Dissolved	ND	ug/L	10.0	1	11/14/11 14:00	11/15/11 11:41	7440-36-0	
Arsenic, Dissolved	ND	ug/L	10.0	1	11/14/11 14:00	11/15/11 11:41	7440-38-2	
Barium, Dissolved	149	ug/L	10.0	1	11/14/11 14:00	11/15/11 11:41	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	1	11/14/11 14:00	11/15/11 11:41	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	11/14/11 14:00	11/15/11 11:41	7440-43-9	
Calcium, Dissolved	30400	ug/L	100	1	11/14/11 14:00	11/15/11 11:41	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	1	11/14/11 14:00	11/15/11 11:41	7440-47-3	B-
Cobalt, Dissolved	ND	ug/L	5.0	1	11/14/11 14:00	11/15/11 11:41	7440-48-4	
Copper, Dissolved	ND	ug/L	10.0	1	11/14/11 14:00	11/15/11 11:41	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	11/14/11 14:00	11/15/11 11:41	7439-89-6	B-
Lead, Dissolved	ND	ug/L	5.0	1	11/14/11 14:00	11/15/11 11:41	7439-92-1	
Magnesium, Dissolved	5630	ug/L	50.0	1	11/14/11 14:00	11/15/11 11:41	7439-95-4	
Manganese, Dissolved	443	ug/L	5.0	1	11/14/11 14:00	11/15/11 11:41	7439-96-5	B+
Nickel, Dissolved	ND	ug/L	5.0	1	11/14/11 14:00	11/15/11 11:41	7440-02-0	B-
Potassium, Dissolved	1600	ug/L	500	1	11/14/11 14:00	11/15/11 11:41	7440-09-7	
Selenium, Dissolved	ND	ug/L	15.0	1	11/14/11 14:00	11/15/11 11:41	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/14/11 14:00	11/15/11 11:41	7440-22-4	
Sodium, Dissolved	8900	ug/L	500	1	11/14/11 14:00	11/15/11 11:41	7440-23-5	
Thallium, Dissolved	ND	ug/L	20.0	1	11/14/11 14:00	11/15/11 11:41	7440-28-0	
Vanadium, Dissolved	ND	ug/L	10.0	1	11/14/11 14:00	11/15/11 11:41	7440-62-2	
Zinc, Dissolved	ND	ug/L	50.0	1	11/14/11 14:00	11/15/11 11:41	7440-66-6	
7470 Mercury, Dissolved (LF)		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/11 17:05	11/15/11 09:18	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0						
Sulfate	4.6	mg/L	1.0	1		11/15/11 13:30	14808-79-8	

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-1 SOIL **Lab ID: 60109998003** Collected: 11/08/11 10:30 Received: 11/09/11 09:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Aluminum	172000	mg/kg	90.3	1	11/14/11 09:30	11/15/11 12:21	7429-90-5	
Antimony	ND	mg/kg	12.0	1	11/14/11 09:30	11/15/11 12:21	7440-36-0	
Arsenic	ND	mg/kg	12.0	1	11/14/11 09:30	11/15/11 12:21	7440-38-2	
Barium	48.7	mg/kg	12.0	1	11/14/11 09:30	11/15/11 12:21	7440-39-3	
Beryllium	1.6	mg/kg	1.2	1	11/14/11 09:30	11/15/11 12:21	7440-41-7	
Cadmium	ND	mg/kg	6.0	1	11/14/11 09:30	11/15/11 12:21	7440-43-9	
Calcium	2220	mg/kg	120	1	11/14/11 09:30	11/15/11 12:21	7440-70-2	
Chromium	16.1	mg/kg	6.0	1	11/14/11 09:30	11/15/11 12:21	7440-47-3	
Cobalt	ND	mg/kg	6.0	1	11/14/11 09:30	11/15/11 12:21	7440-48-4	
Copper	146	mg/kg	12.0	1	11/14/11 09:30	11/15/11 12:21	7440-50-8	
Iron	15800	mg/kg	60.2	1	11/14/11 09:30	11/15/11 12:21	7439-89-6	B+
Lead	6.6	mg/kg	6.0	1	11/14/11 09:30	11/15/11 12:21	7439-92-1	
Magnesium	1250	mg/kg	60.2	1	11/14/11 09:30	11/15/11 12:21	7439-95-4	
Manganese	276	mg/kg	6.0	1	11/14/11 09:30	11/15/11 12:21	7439-96-5	
Nickel	6.6	mg/kg	6.0	1	11/14/11 09:30	11/15/11 12:21	7440-02-0	
Potassium	1100	mg/kg	602	1	11/14/11 09:30	11/15/11 12:21	7440-09-7	
Selenium	ND	mg/kg	18.1	1	11/14/11 09:30	11/15/11 12:21	7782-49-2	
Silver	ND	mg/kg	8.4	1	11/14/11 09:30	11/15/11 12:21	7440-22-4	
Sodium	ND	mg/kg	602	1	11/14/11 09:30	11/15/11 12:21	7440-23-5	
Thallium	ND	mg/kg	24.1	1	11/14/11 09:30	11/15/11 12:21	7440-28-0	
Vanadium	19.0	mg/kg	12.0	1	11/14/11 09:30	11/15/11 12:21	7440-62-2	
Zinc	ND	mg/kg	120	1	11/14/11 09:30	11/15/11 12:21	7440-66-6	
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471						
Mercury	ND	mg/kg	0.56	1	11/15/11 10:25	11/15/11 14:09	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	92.6	%	0.50	1		11/14/11 00:00		

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-2 SOIL **Lab ID: 60109998004** Collected: 11/08/11 11:15 Received: 11/09/11 09:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Aluminum	165000	mg/kg	59.3	1	11/14/11 09:30	11/15/11 12:28	7429-90-5	
Antimony	ND	mg/kg	7.9	1	11/14/11 09:30	11/15/11 12:28	7440-36-0	
Arsenic	ND	mg/kg	7.9	1	11/14/11 09:30	11/15/11 12:28	7440-38-2	
Barium	55.2	mg/kg	7.9	1	11/14/11 09:30	11/15/11 12:28	7440-39-3	
Beryllium	1.5	mg/kg	0.79	1	11/14/11 09:30	11/15/11 12:28	7440-41-7	
Cadmium	ND	mg/kg	4.0	1	11/14/11 09:30	11/15/11 12:28	7440-43-9	
Calcium	3070	mg/kg	79.0	1	11/14/11 09:30	11/15/11 12:28	7440-70-2	
Chromium	15.0	mg/kg	4.0	1	11/14/11 09:30	11/15/11 12:28	7440-47-3	
Cobalt	ND	mg/kg	4.0	1	11/14/11 09:30	11/15/11 12:28	7440-48-4	
Copper	174	mg/kg	7.9	1	11/14/11 09:30	11/15/11 12:28	7440-50-8	
Iron	15500	mg/kg	39.5	1	11/14/11 09:30	11/15/11 12:28	7439-89-6	B+
Lead	6.5	mg/kg	4.0	1	11/14/11 09:30	11/15/11 12:28	7439-92-1	
Magnesium	1260	mg/kg	39.5	1	11/14/11 09:30	11/15/11 12:28	7439-95-4	
Manganese	332	mg/kg	4.0	1	11/14/11 09:30	11/15/11 12:28	7439-96-5	
Nickel	8.0	mg/kg	4.0	1	11/14/11 09:30	11/15/11 12:28	7440-02-0	
Potassium	1130	mg/kg	395	1	11/14/11 09:30	11/15/11 12:28	7440-09-7	
Selenium	ND	mg/kg	11.9	1	11/14/11 09:30	11/15/11 12:28	7782-49-2	
Silver	ND	mg/kg	5.5	1	11/14/11 09:30	11/15/11 12:28	7440-22-4	
Sodium	ND	mg/kg	395	1	11/14/11 09:30	11/15/11 12:28	7440-23-5	
Thallium	ND	mg/kg	15.8	1	11/14/11 09:30	11/15/11 12:28	7440-28-0	
Vanadium	19.7	mg/kg	7.9	1	11/14/11 09:30	11/15/11 12:28	7440-62-2	
Zinc	ND	mg/kg	79.0	1	11/14/11 09:30	11/15/11 12:28	7440-66-6	

7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

Mercury	ND	mg/kg	0.34	1	11/15/11 10:25	11/15/11 14:10	7439-97-6
---------	----	-------	------	---	----------------	----------------	-----------

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	89.4	%	0.50	1		11/14/11 00:00
------------------	-------------	---	------	---	--	----------------

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-3 WATER		Lab ID: 60109998005	Collected: 11/08/11 08:00	Received: 11/09/11 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved (LF)		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic, Dissolved	ND ug/L		10.0	1	11/14/11 14:00	11/15/11 11:43	7440-38-2	
Barium, Dissolved	74.1 ug/L		10.0	1	11/14/11 14:00	11/15/11 11:43	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	11/14/11 14:00	11/15/11 11:43	7440-43-9	
Chromium, Dissolved	ND ug/L		5.0	1	11/14/11 14:00	11/15/11 11:43	7440-47-3	B-
Lead, Dissolved	ND ug/L		5.0	1	11/14/11 14:00	11/15/11 11:43	7439-92-1	
Selenium, Dissolved	ND ug/L		15.0	1	11/14/11 14:00	11/15/11 11:43	7782-49-2	
Silver, Dissolved	ND ug/L		7.0	1	11/14/11 14:00	11/15/11 11:43	7440-22-4	
7470 Mercury, Dissolved (LF)		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND ug/L		0.20	1	11/12/11 17:05	11/15/11 09:34	7439-97-6	
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	ND ug/L		10.0	1		11/12/11 11:32	67-64-1	
Benzene	ND ug/L		1.0	1		11/12/11 11:32	71-43-2	
Bromobenzene	ND ug/L		1.0	1		11/12/11 11:32	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		11/12/11 11:32	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		11/12/11 11:32	75-27-4	
Bromoform	ND ug/L		1.0	1		11/12/11 11:32	75-25-2	
Bromomethane	ND ug/L		1.0	1		11/12/11 11:32	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		11/12/11 11:32	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		11/12/11 11:32	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		11/12/11 11:32	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		11/12/11 11:32	98-06-6	
Carbon disulfide	ND ug/L		5.0	1		11/12/11 11:32	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		11/12/11 11:32	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		11/12/11 11:32	108-90-7	
Chloroethane	ND ug/L		1.0	1		11/12/11 11:32	75-00-3	
Chloroform	ND ug/L		1.0	1		11/12/11 11:32	67-66-3	
Chloromethane	ND ug/L		1.0	1		11/12/11 11:32	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		11/12/11 11:32	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		11/12/11 11:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		2.5	1		11/12/11 11:32	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		11/12/11 11:32	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		11/12/11 11:32	106-93-4	
Dibromomethane	ND ug/L		1.0	1		11/12/11 11:32	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		11/12/11 11:32	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		11/12/11 11:32	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		11/12/11 11:32	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		11/12/11 11:32	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		11/12/11 11:32	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		11/12/11 11:32	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		1.0	1		11/12/11 11:32	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		11/12/11 11:32	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		11/12/11 11:32	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		11/12/11 11:32	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		11/12/11 11:32	78-87-5	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 10 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-3 WATER		Lab ID: 60109998005	Collected: 11/08/11 08:00	Received: 11/09/11 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
1,3-Dichloropropane	ND ug/L		1.0	1		11/12/11 11:32	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	1		11/12/11 11:32	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		11/12/11 11:32	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		11/12/11 11:32	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		11/12/11 11:32	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		11/12/11 11:32	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		11/12/11 11:32	87-68-3	
2-Hexanone	ND ug/L		10.0	1		11/12/11 11:32	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		11/12/11 11:32	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		11/12/11 11:32	99-87-6	
Methylene chloride	ND ug/L		1.0	1		11/12/11 11:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		11/12/11 11:32	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		11/12/11 11:32	1634-04-4	
Naphthalene	ND ug/L		10.0	1		11/12/11 11:32	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		11/12/11 11:32	103-65-1	
Styrene	ND ug/L		1.0	1		11/12/11 11:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		11/12/11 11:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		11/12/11 11:32	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		11/12/11 11:32	127-18-4	
Toluene	ND ug/L		1.0	1		11/12/11 11:32	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		11/12/11 11:32	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		11/12/11 11:32	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		11/12/11 11:32	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		11/12/11 11:32	79-00-5	
Trichloroethene	ND ug/L		1.0	1		11/12/11 11:32	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		11/12/11 11:32	75-69-4	
1,2,3-Trichloropropane	ND ug/L		2.5	1		11/12/11 11:32	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		11/12/11 11:32	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		11/12/11 11:32	108-67-8	
Vinyl chloride	ND ug/L		1.0	1		11/12/11 11:32	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		11/12/11 11:32	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		87-113	1		11/12/11 11:32	460-00-4	
Dibromofluoromethane (S)	101 %		86-112	1		11/12/11 11:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	102 %		82-119	1		11/12/11 11:32	17060-07-0	
Toluene-d8 (S)	99 %		90-110	1		11/12/11 11:32	2037-26-5	
Preservation pH	1.0		0.10	1		11/12/11 11:32		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND mg/L		5.0	1		11/11/11 11:11		

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-4 WATER		Lab ID: 60109998006	Collected: 11/08/11 08:45	Received: 11/09/11 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	ND ug/L		10.0	1		11/12/11 11:47	67-64-1	
Benzene	ND ug/L		1.0	1		11/12/11 11:47	71-43-2	
Bromobenzene	ND ug/L		1.0	1		11/12/11 11:47	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		11/12/11 11:47	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		11/12/11 11:47	75-27-4	
Bromoform	ND ug/L		1.0	1		11/12/11 11:47	75-25-2	
Bromomethane	ND ug/L		1.0	1		11/12/11 11:47	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		11/12/11 11:47	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		11/12/11 11:47	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		11/12/11 11:47	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		11/12/11 11:47	98-06-6	
Carbon disulfide	ND ug/L		5.0	1		11/12/11 11:47	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		11/12/11 11:47	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		11/12/11 11:47	108-90-7	
Chloroethane	ND ug/L		1.0	1		11/12/11 11:47	75-00-3	
Chloroform	ND ug/L		1.0	1		11/12/11 11:47	67-66-3	
Chloromethane	ND ug/L		1.0	1		11/12/11 11:47	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		11/12/11 11:47	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		11/12/11 11:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		2.5	1		11/12/11 11:47	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		11/12/11 11:47	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		11/12/11 11:47	106-93-4	
Dibromomethane	ND ug/L		1.0	1		11/12/11 11:47	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		11/12/11 11:47	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		11/12/11 11:47	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		11/12/11 11:47	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		11/12/11 11:47	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		11/12/11 11:47	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		11/12/11 11:47	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		1.0	1		11/12/11 11:47	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		11/12/11 11:47	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		11/12/11 11:47	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		11/12/11 11:47	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		11/12/11 11:47	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		11/12/11 11:47	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	1		11/12/11 11:47	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		11/12/11 11:47	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		11/12/11 11:47	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		11/12/11 11:47	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		11/12/11 11:47	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		11/12/11 11:47	87-68-3	
2-Hexanone	ND ug/L		10.0	1		11/12/11 11:47	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		11/12/11 11:47	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		11/12/11 11:47	99-87-6	
Methylene chloride	ND ug/L		1.0	1		11/12/11 11:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		11/12/11 11:47	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		11/12/11 11:47	1634-04-4	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 12 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-4 WATER		Lab ID: 60109998006	Collected: 11/08/11 08:45	Received: 11/09/11 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Naphthalene	ND ug/L		10.0	1		11/12/11 11:47	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		11/12/11 11:47	103-65-1	
Styrene	ND ug/L		1.0	1		11/12/11 11:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		11/12/11 11:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		11/12/11 11:47	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		11/12/11 11:47	127-18-4	
Toluene	ND ug/L		1.0	1		11/12/11 11:47	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		11/12/11 11:47	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		11/12/11 11:47	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		11/12/11 11:47	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		11/12/11 11:47	79-00-5	
Trichloroethene	ND ug/L		1.0	1		11/12/11 11:47	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		11/12/11 11:47	75-69-4	
1,2,3-Trichloropropane	ND ug/L		2.5	1		11/12/11 11:47	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		11/12/11 11:47	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		11/12/11 11:47	108-67-8	
Vinyl chloride	ND ug/L		1.0	1		11/12/11 11:47	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		11/12/11 11:47	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100 %		87-113	1		11/12/11 11:47	460-00-4	
Dibromofluoromethane (S)	103 %		86-112	1		11/12/11 11:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	104 %		82-119	1		11/12/11 11:47	17060-07-0	
Toluene-d8 (S)	97 %		90-110	1		11/12/11 11:47	2037-26-5	
Preservation pH	1.0		0.10	1		11/12/11 11:47		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND mg/L		5.0	1		11/11/11 11:11		

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-5 WATER		Lab ID: 60109998007	Collected: 11/08/11 09:40	Received: 11/09/11 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved (LF)		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Arsenic, Dissolved	ND ug/L		10.0	1	11/14/11 14:00	11/15/11 11:45	7440-38-2	
Barium, Dissolved	120 ug/L		10.0	1	11/14/11 14:00	11/15/11 11:45	7440-39-3	
Cadmium, Dissolved	ND ug/L		5.0	1	11/14/11 14:00	11/15/11 11:45	7440-43-9	
Chromium, Dissolved	ND ug/L		5.0	1	11/14/11 14:00	11/15/11 11:45	7440-47-3	B-
Lead, Dissolved	ND ug/L		5.0	1	11/14/11 14:00	11/15/11 11:45	7439-92-1	
Selenium, Dissolved	ND ug/L		15.0	1	11/14/11 14:00	11/15/11 11:45	7782-49-2	
Silver, Dissolved	ND ug/L		7.0	1	11/14/11 14:00	11/15/11 11:45	7440-22-4	
7470 Mercury, Dissolved (LF)		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury, Dissolved	ND ug/L		0.20	1	11/12/11 17:05	11/15/11 09:23	7439-97-6	
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	ND ug/L		10.0	1		11/12/11 12:03	67-64-1	
Benzene	ND ug/L		1.0	1		11/12/11 12:03	71-43-2	
Bromobenzene	ND ug/L		1.0	1		11/12/11 12:03	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		11/12/11 12:03	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		11/12/11 12:03	75-27-4	
Bromoform	ND ug/L		1.0	1		11/12/11 12:03	75-25-2	
Bromomethane	ND ug/L		1.0	1		11/12/11 12:03	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		11/12/11 12:03	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		11/12/11 12:03	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		11/12/11 12:03	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		11/12/11 12:03	98-06-6	
Carbon disulfide	ND ug/L		5.0	1		11/12/11 12:03	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		11/12/11 12:03	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		11/12/11 12:03	108-90-7	
Chloroethane	ND ug/L		1.0	1		11/12/11 12:03	75-00-3	
Chloroform	ND ug/L		1.0	1		11/12/11 12:03	67-66-3	
Chloromethane	ND ug/L		1.0	1		11/12/11 12:03	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		11/12/11 12:03	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		11/12/11 12:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		2.5	1		11/12/11 12:03	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		11/12/11 12:03	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		11/12/11 12:03	106-93-4	
Dibromomethane	ND ug/L		1.0	1		11/12/11 12:03	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		11/12/11 12:03	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		11/12/11 12:03	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		11/12/11 12:03	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		11/12/11 12:03	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		11/12/11 12:03	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		11/12/11 12:03	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		1.0	1		11/12/11 12:03	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		11/12/11 12:03	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		11/12/11 12:03	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		11/12/11 12:03	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		11/12/11 12:03	78-87-5	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 14 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-5 WATER		Lab ID: 60109998007	Collected: 11/08/11 09:40	Received: 11/09/11 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
1,3-Dichloropropane	ND ug/L		1.0	1		11/12/11 12:03	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	1		11/12/11 12:03	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		11/12/11 12:03	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		11/12/11 12:03	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		11/12/11 12:03	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		11/12/11 12:03	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		11/12/11 12:03	87-68-3	
2-Hexanone	ND ug/L		10.0	1		11/12/11 12:03	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		11/12/11 12:03	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		11/12/11 12:03	99-87-6	
Methylene chloride	ND ug/L		1.0	1		11/12/11 12:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		11/12/11 12:03	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		11/12/11 12:03	1634-04-4	
Naphthalene	ND ug/L		10.0	1		11/12/11 12:03	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		11/12/11 12:03	103-65-1	
Styrene	ND ug/L		1.0	1		11/12/11 12:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		11/12/11 12:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		11/12/11 12:03	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		11/12/11 12:03	127-18-4	
Toluene	ND ug/L		1.0	1		11/12/11 12:03	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		11/12/11 12:03	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		11/12/11 12:03	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		11/12/11 12:03	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		11/12/11 12:03	79-00-5	
Trichloroethene	ND ug/L		1.0	1		11/12/11 12:03	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		11/12/11 12:03	75-69-4	
1,2,3-Trichloropropane	ND ug/L		2.5	1		11/12/11 12:03	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		11/12/11 12:03	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		11/12/11 12:03	108-67-8	
Vinyl chloride	ND ug/L		1.0	1		11/12/11 12:03	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		11/12/11 12:03	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100 %		87-113	1		11/12/11 12:03	460-00-4	
Dibromofluoromethane (S)	104 %		86-112	1		11/12/11 12:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	103 %		82-119	1		11/12/11 12:03	17060-07-0	
Toluene-d8 (S)	98 %		90-110	1		11/12/11 12:03	2037-26-5	
Preservation pH	1.0		0.10	1		11/12/11 12:03		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND mg/L		5.0	1		11/11/11 11:12		

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI
Pace Project No.: 60109998

Sample: GB-3 SOIL **Lab ID: 60109998008** Collected: 11/08/11 08:00 Received: 11/09/11 09:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	1.2	mg/kg	1.1	1	11/14/11 09:30	11/15/11 12:30	7440-38-2	
Barium	69.0	mg/kg	1.1	1	11/14/11 09:30	11/15/11 12:30	7440-39-3	
Cadmium	ND	mg/kg	0.53	1	11/14/11 09:30	11/15/11 12:30	7440-43-9	
Chromium	12.1	mg/kg	0.53	1	11/14/11 09:30	11/15/11 12:30	7440-47-3	
Lead	5.0	mg/kg	0.53	1	11/14/11 09:30	11/15/11 12:30	7439-92-1	
Selenium	ND	mg/kg	1.6	1	11/14/11 09:30	11/15/11 12:30	7782-49-2	
Silver	ND	mg/kg	0.74	1	11/14/11 09:30	11/15/11 12:30	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.048	1	11/15/11 10:25	11/15/11 14:12	7439-97-6	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	ug/kg	23.4	1		11/11/11 15:17	67-64-1	L1
Benzene	ND	ug/kg	5.9	1		11/11/11 15:17	71-43-2	
Bromobenzene	ND	ug/kg	5.9	1		11/11/11 15:17	108-86-1	
Bromochloromethane	ND	ug/kg	5.9	1		11/11/11 15:17	74-97-5	
Bromodichloromethane	ND	ug/kg	5.9	1		11/11/11 15:17	75-27-4	
Bromoform	ND	ug/kg	5.9	1		11/11/11 15:17	75-25-2	
Bromomethane	ND	ug/kg	5.9	1		11/11/11 15:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.7	1		11/11/11 15:17	78-93-3	L3
n-Butylbenzene	ND	ug/kg	5.9	1		11/11/11 15:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.9	1		11/11/11 15:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.9	1		11/11/11 15:17	98-06-6	
Carbon disulfide	ND	ug/kg	5.9	1		11/11/11 15:17	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.9	1		11/11/11 15:17	56-23-5	
Chlorobenzene	ND	ug/kg	5.9	1		11/11/11 15:17	108-90-7	
Chloroethane	ND	ug/kg	5.9	1		11/11/11 15:17	75-00-3	
Chloroform	ND	ug/kg	5.9	1		11/11/11 15:17	67-66-3	
Chloromethane	ND	ug/kg	5.9	1		11/11/11 15:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.9	1		11/11/11 15:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.9	1		11/11/11 15:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	11.7	1		11/11/11 15:17	96-12-8	
Dibromochloromethane	ND	ug/kg	5.9	1		11/11/11 15:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.9	1		11/11/11 15:17	106-93-4	
Dibromomethane	ND	ug/kg	5.9	1		11/11/11 15:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.9	1		11/11/11 15:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.9	1		11/11/11 15:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.9	1		11/11/11 15:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.9	1		11/11/11 15:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.9	1		11/11/11 15:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.9	1		11/11/11 15:17	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.9	1		11/11/11 15:17	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.9	1		11/11/11 15:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.9	1		11/11/11 15:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.9	1		11/11/11 15:17	156-60-5	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 16 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-3 SOIL Lab ID: 60109998008 Collected: 11/08/11 08:00 Received: 11/09/11 09:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,2-Dichloropropane	ND	ug/kg	5.9	1		11/11/11 15:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.9	1		11/11/11 15:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.9	1		11/11/11 15:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.9	1		11/11/11 15:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.9	1		11/11/11 15:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1		11/11/11 15:17	10061-02-6	
Ethylbenzene	ND	ug/kg	5.9	1		11/11/11 15:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.9	1		11/11/11 15:17	87-68-3	
2-Hexanone	ND	ug/kg	23.4	1		11/11/11 15:17	591-78-6	L3
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	1		11/11/11 15:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.9	1		11/11/11 15:17	99-87-6	
Methylene chloride	ND	ug/kg	5.9	1		11/11/11 15:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.7	1		11/11/11 15:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.9	1		11/11/11 15:17	1634-04-4	
Naphthalene	ND	ug/kg	11.7	1		11/11/11 15:17	91-20-3	
n-Propylbenzene	ND	ug/kg	5.9	1		11/11/11 15:17	103-65-1	
Styrene	ND	ug/kg	5.9	1		11/11/11 15:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.9	1		11/11/11 15:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	1		11/11/11 15:17	79-34-5	
Tetrachloroethene	ND	ug/kg	5.9	1		11/11/11 15:17	127-18-4	
Toluene	ND	ug/kg	5.9	1		11/11/11 15:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.9	1		11/11/11 15:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	1		11/11/11 15:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.9	1		11/11/11 15:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.9	1		11/11/11 15:17	79-00-5	
Trichloroethene	ND	ug/kg	5.9	1		11/11/11 15:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.9	1		11/11/11 15:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.9	1		11/11/11 15:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	1		11/11/11 15:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	1		11/11/11 15:17	108-67-8	
Vinyl chloride	ND	ug/kg	5.9	1		11/11/11 15:17	75-01-4	
Xylene (Total)	ND	ug/kg	5.9	1		11/11/11 15:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102 %		68-129	1		11/11/11 15:17	1868-53-7	
Toluene-d8 (S)	100 %		81-121	1		11/11/11 15:17	2037-26-5	
4-Bromofluorobenzene (S)	98 %		75-131	1		11/11/11 15:17	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		77-131	1		11/11/11 15:17	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture 14.8 % 0.50 1 11/14/11 00:00

9071 Oil and Grease

Analytical Method: EPA 9071 Preparation Method: EPA 9071

Oil and Grease ND mg/kg 234 1 11/15/11 00:00 11/16/11 00:00

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-4 SOIL **Lab ID: 60109998009** Collected: 11/08/11 08:45 Received: 11/09/11 09:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	1.7	mg/kg	1.1	1	11/14/11 09:30	11/15/11 12:32	7440-38-2	
Barium	58.2	mg/kg	1.1	1	11/14/11 09:30	11/15/11 12:32	7440-39-3	
Cadmium	ND	mg/kg	0.57	1	11/14/11 09:30	11/15/11 12:32	7440-43-9	
Chromium	10.0	mg/kg	0.57	1	11/14/11 09:30	11/15/11 12:32	7440-47-3	
Lead	4.5	mg/kg	0.57	1	11/14/11 09:30	11/15/11 12:32	7439-92-1	
Selenium	ND	mg/kg	1.7	1	11/14/11 09:30	11/15/11 12:32	7782-49-2	
Silver	ND	mg/kg	0.80	1	11/14/11 09:30	11/15/11 12:32	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.042	1	11/15/11 10:25	11/15/11 14:18	7439-97-6	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	ug/kg	23.2	1		11/11/11 15:32	67-64-1	L1
Benzene	ND	ug/kg	5.8	1		11/11/11 15:32	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1		11/11/11 15:32	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1		11/11/11 15:32	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1		11/11/11 15:32	75-27-4	
Bromoform	ND	ug/kg	5.8	1		11/11/11 15:32	75-25-2	
Bromomethane	ND	ug/kg	5.8	1		11/11/11 15:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.6	1		11/11/11 15:32	78-93-3	L3
n-Butylbenzene	ND	ug/kg	5.8	1		11/11/11 15:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1		11/11/11 15:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1		11/11/11 15:32	98-06-6	
Carbon disulfide	ND	ug/kg	5.8	1		11/11/11 15:32	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.8	1		11/11/11 15:32	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		11/11/11 15:32	108-90-7	
Chloroethane	ND	ug/kg	5.8	1		11/11/11 15:32	75-00-3	
Chloroform	ND	ug/kg	5.8	1		11/11/11 15:32	67-66-3	
Chloromethane	ND	ug/kg	5.8	1		11/11/11 15:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1		11/11/11 15:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1		11/11/11 15:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	11.6	1		11/11/11 15:32	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		11/11/11 15:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		11/11/11 15:32	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1		11/11/11 15:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		11/11/11 15:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		11/11/11 15:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		11/11/11 15:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.8	1		11/11/11 15:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		11/11/11 15:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		11/11/11 15:32	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.8	1		11/11/11 15:32	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.8	1		11/11/11 15:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		11/11/11 15:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		11/11/11 15:32	156-60-5	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 18 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-4 SOIL Lab ID: 60109998009 Collected: 11/08/11 08:45 Received: 11/09/11 09:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,2-Dichloropropane	ND	ug/kg	5.8	1		11/11/11 15:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		11/11/11 15:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		11/11/11 15:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		11/11/11 15:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		11/11/11 15:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		11/11/11 15:32	10061-02-6	
Ethylbenzene	ND	ug/kg	5.8	1		11/11/11 15:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		11/11/11 15:32	87-68-3	
2-Hexanone	ND	ug/kg	23.2	1		11/11/11 15:32	591-78-6	L3
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		11/11/11 15:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	1		11/11/11 15:32	99-87-6	
Methylene chloride	ND	ug/kg	5.8	1		11/11/11 15:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.6	1		11/11/11 15:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		11/11/11 15:32	1634-04-4	
Naphthalene	ND	ug/kg	11.6	1		11/11/11 15:32	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	1		11/11/11 15:32	103-65-1	
Styrene	ND	ug/kg	5.8	1		11/11/11 15:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		11/11/11 15:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		11/11/11 15:32	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		11/11/11 15:32	127-18-4	
Toluene	ND	ug/kg	5.8	1		11/11/11 15:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		11/11/11 15:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		11/11/11 15:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		11/11/11 15:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		11/11/11 15:32	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		11/11/11 15:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		11/11/11 15:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		11/11/11 15:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		11/11/11 15:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		11/11/11 15:32	108-67-8	
Vinyl chloride	ND	ug/kg	5.8	1		11/11/11 15:32	75-01-4	
Xylene (Total)	ND	ug/kg	5.8	1		11/11/11 15:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100 %		68-129	1		11/11/11 15:32	1868-53-7	
Toluene-d8 (S)	100 %		81-121	1		11/11/11 15:32	2037-26-5	
4-Bromofluorobenzene (S)	98 %		75-131	1		11/11/11 15:32	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		77-131	1		11/11/11 15:32	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture 14.7 % 0.50 1 11/14/11 00:00

9071 Oil and Grease

Analytical Method: EPA 9071 Preparation Method: EPA 9071

Oil and Grease ND mg/kg 234 1 11/15/11 00:00 11/16/11 00:00

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-5 SOIL Lab ID: 60109998010 Collected: 11/08/11 09:40 Received: 11/09/11 09:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	0.97	mg/kg	0.97	1	11/14/11 09:30	11/15/11 12:34	7440-38-2	
Barium	79.0	mg/kg	0.97	1	11/14/11 09:30	11/15/11 12:34	7440-39-3	
Cadmium	ND	mg/kg	0.48	1	11/14/11 09:30	11/15/11 12:34	7440-43-9	
Chromium	7.0	mg/kg	0.48	1	11/14/11 09:30	11/15/11 12:34	7440-47-3	
Lead	3.4	mg/kg	0.48	1	11/14/11 09:30	11/15/11 12:34	7439-92-1	
Selenium	ND	mg/kg	1.5	1	11/14/11 09:30	11/15/11 12:34	7782-49-2	
Silver	ND	mg/kg	0.68	1	11/14/11 09:30	11/15/11 12:34	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND	mg/kg	0.038	1	11/15/11 10:25	11/15/11 14:20	7439-97-6	
8260 MSV 5035A VOA Analytical Method: EPA 8260								
Acetone	ND	ug/kg	22.1	1		11/11/11 15:47	67-64-1	L3
Benzene	ND	ug/kg	5.5	1		11/11/11 15:47	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		11/11/11 15:47	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		11/11/11 15:47	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		11/11/11 15:47	75-27-4	
Bromoform	ND	ug/kg	5.5	1		11/11/11 15:47	75-25-2	
Bromomethane	ND	ug/kg	5.5	1		11/11/11 15:47	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.1	1		11/11/11 15:47	78-93-3	L3
n-Butylbenzene	ND	ug/kg	5.5	1		11/11/11 15:47	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		11/11/11 15:47	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		11/11/11 15:47	98-06-6	
Carbon disulfide	ND	ug/kg	5.5	1		11/11/11 15:47	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.5	1		11/11/11 15:47	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		11/11/11 15:47	108-90-7	
Chloroethane	ND	ug/kg	5.5	1		11/11/11 15:47	75-00-3	
Chloroform	ND	ug/kg	5.5	1		11/11/11 15:47	67-66-3	
Chloromethane	ND	ug/kg	5.5	1		11/11/11 15:47	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		11/11/11 15:47	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		11/11/11 15:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	11.1	1		11/11/11 15:47	96-12-8	
Dibromochloromethane	ND	ug/kg	5.5	1		11/11/11 15:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		11/11/11 15:47	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		11/11/11 15:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		11/11/11 15:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		11/11/11 15:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		11/11/11 15:47	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.5	1		11/11/11 15:47	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		11/11/11 15:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		11/11/11 15:47	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.5	1		11/11/11 15:47	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.5	1		11/11/11 15:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		11/11/11 15:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		11/11/11 15:47	156-60-5	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 20 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: GB-5 SOIL Lab ID: 60109998010 Collected: 11/08/11 09:40 Received: 11/09/11 09:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,2-Dichloropropane	ND	ug/kg	5.5	1		11/11/11 15:47	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		11/11/11 15:47	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		11/11/11 15:47	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		11/11/11 15:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		11/11/11 15:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		11/11/11 15:47	10061-02-6	
Ethylbenzene	ND	ug/kg	5.5	1		11/11/11 15:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		11/11/11 15:47	87-68-3	
2-Hexanone	ND	ug/kg	22.1	1		11/11/11 15:47	591-78-6	L3
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1		11/11/11 15:47	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		11/11/11 15:47	99-87-6	
Methylene chloride	ND	ug/kg	5.5	1		11/11/11 15:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.1	1		11/11/11 15:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		11/11/11 15:47	1634-04-4	
Naphthalene	ND	ug/kg	11.1	1		11/11/11 15:47	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		11/11/11 15:47	103-65-1	
Styrene	ND	ug/kg	5.5	1		11/11/11 15:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		11/11/11 15:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		11/11/11 15:47	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1		11/11/11 15:47	127-18-4	
Toluene	ND	ug/kg	5.5	1		11/11/11 15:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		11/11/11 15:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		11/11/11 15:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		11/11/11 15:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		11/11/11 15:47	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1		11/11/11 15:47	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		11/11/11 15:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		11/11/11 15:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		11/11/11 15:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		11/11/11 15:47	108-67-8	
Vinyl chloride	ND	ug/kg	5.5	1		11/11/11 15:47	75-01-4	
Xylene (Total)	ND	ug/kg	5.5	1		11/11/11 15:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101 %		68-129	1		11/11/11 15:47	1868-53-7	
Toluene-d8 (S)	100 %		81-121	1		11/11/11 15:47	2037-26-5	
4-Bromofluorobenzene (S)	98 %		75-131	1		11/11/11 15:47	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %		77-131	1		11/11/11 15:47	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture 11.0 % 0.50 1 11/14/11 00:00

9071 Oil and Grease

Analytical Method: EPA 9071 Preparation Method: EPA 9071

Oil and Grease ND mg/kg 225 1 11/15/11 00:00 11/16/11 00:00

ANALYTICAL RESULTS

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Sample: PCB W-6		Lab ID: 60109998011	Collected: 11/08/11 11:45	Received: 11/09/11 09:20	Matrix: Wipe			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB		Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)						
PCB-1016 (Aroclor 1016)	ND Total ug-		1.0	1	11/14/11 00:00	11/14/11 16:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug-		1.0	1	11/14/11 00:00	11/14/11 16:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug-		1.0	1	11/14/11 00:00	11/14/11 16:40	11141-16-5	
PCB-1242 (Aroclor 1242)	6.3 Total ug-		1.0	1	11/14/11 00:00	11/14/11 16:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug-		1.0	1	11/14/11 00:00	11/14/11 16:40	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug-		1.0	1	11/14/11 00:00	11/14/11 16:40	11097-69-1	
PCB-1260 (Aroclor 1260)	ND Total ug-		1.0	1	11/14/11 00:00	11/14/11 16:40	11096-82-5	
Surrogates								
Tetrachloro-m-xylene (S)	106 %		48-118	1	11/14/11 00:00	11/14/11 16:40	877-09-8	
Decachlorobiphenyl (S)	99 %		44-115	1	11/14/11 00:00	11/14/11 16:40	2051-24-3	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch: MERP/5802 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 60109998001, 60109998002, 60109998005, 60109998007

METHOD BLANK: 910725 Matrix: Water
Associated Lab Samples: 60109998001, 60109998002, 60109998005, 60109998007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	11/15/11 09:12	

LABORATORY CONTROL SAMPLE: 910726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 910727 910728

Parameter	Units	60109998001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.8	4.6	94	90	75-125	4	20	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch: MERP/5806 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 60109998003, 60109998004, 60109998008, 60109998009, 60109998010

METHOD BLANK: 911173 Matrix: Solid
Associated Lab Samples: 60109998003, 60109998004, 60109998008, 60109998009, 60109998010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.050	11/15/11 13:56	

LABORATORY CONTROL SAMPLE: 911174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.50	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 911175 911176

Parameter	Units	60110083001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.58	.55	0.58	0.55	98	98	75-125	6	20	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch: MPRP/16076 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 60109998003, 60109998004, 60109998008, 60109998009, 60109998010

METHOD BLANK: 910238 Matrix: Solid
Associated Lab Samples: 60109998003, 60109998004, 60109998008, 60109998009, 60109998010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/kg	ND	7.5	11/15/11 12:15	
Antimony	mg/kg	ND	1.0	11/15/11 12:15	
Arsenic	mg/kg	ND	1.0	11/15/11 12:15	
Barium	mg/kg	ND	1.0	11/15/11 12:15	
Beryllium	mg/kg	ND	0.10	11/15/11 12:15	
Cadmium	mg/kg	ND	0.50	11/15/11 12:15	
Calcium	mg/kg	ND	10.0	11/15/11 12:15	
Chromium	mg/kg	ND	0.50	11/15/11 12:15	
Cobalt	mg/kg	ND	0.50	11/15/11 12:15	
Copper	mg/kg	ND	1.0	11/15/11 12:15	
Iron	mg/kg	7.1	5.0	11/15/11 12:15	
Lead	mg/kg	ND	0.50	11/15/11 12:15	
Magnesium	mg/kg	ND	5.0	11/15/11 12:15	
Manganese	mg/kg	ND	0.50	11/15/11 12:15	
Nickel	mg/kg	ND	0.50	11/15/11 12:15	
Potassium	mg/kg	ND	50.0	11/15/11 12:15	
Selenium	mg/kg	ND	1.5	11/15/11 12:15	
Silver	mg/kg	ND	0.70	11/15/11 12:15	
Sodium	mg/kg	ND	50.0	11/15/11 12:15	
Thallium	mg/kg	ND	2.0	11/15/11 12:15	
Vanadium	mg/kg	ND	1.0	11/15/11 12:15	
Zinc	mg/kg	ND	10.0	11/15/11 12:15	

LABORATORY CONTROL SAMPLE: 910239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	500	462	92	80-120	
Antimony	mg/kg	50	44.6	89	80-120	
Arsenic	mg/kg	50	44.3	89	80-120	
Barium	mg/kg	50	47.2	94	80-120	
Beryllium	mg/kg	50	49.2	98	80-120	
Cadmium	mg/kg	50	45.1	90	80-120	
Calcium	mg/kg	500	477	95	80-120	
Chromium	mg/kg	50	50.5	101	80-120	
Cobalt	mg/kg	50	49.5	99	80-120	
Copper	mg/kg	50	45.0	90	80-120	
Iron	mg/kg	500	477	95	80-120	
Lead	mg/kg	50	47.4	95	80-120	
Magnesium	mg/kg	500	461	92	80-120	
Manganese	mg/kg	50	49.5	99	80-120	
Nickel	mg/kg	50	48.6	97	80-120	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 25 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

LABORATORY CONTROL SAMPLE: 910239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Potassium	mg/kg	500	464	93	80-120	
Selenium	mg/kg	50	42.1	84	80-120	
Silver	mg/kg	25	22.7	91	80-120	
Sodium	mg/kg	500	474	95	80-120	
Thallium	mg/kg	50	47.5	95	80-120	
Vanadium	mg/kg	50	48.9	98	80-120	
Zinc	mg/kg	50	48.0	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 910240 910241

Parameter	Units	60109998010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	mg/kg	4970	464	556	6220	4670	271	-53	75-125	29	20	M0,R1
Antimony	mg/kg	ND	46.4	55.6	24.6	32.9	53	59	75-125	29	20	M0,R1
Arsenic	mg/kg	0.97	46.4	55.6	40.0	49.2	84	87	75-125	21	20	M0,R1
Barium	mg/kg	79.0	46.4	55.6	172	101	200	39	75-125	52	20	M0,R1
Beryllium	mg/kg	0.17	46.4	55.6	43.2	53.8	93	96	75-125	22	20	M0,R1
Cadmium	mg/kg	ND	46.4	55.6	40.2	49.1	87	88	75-125	20	20	
Calcium	mg/kg	1360	464	556	2390	1510	223	28	75-125	45	20	M0,R1
Chromium	mg/kg	7.0	46.4	55.6	52.2	60.8	97	97	75-125	15	20	
Cobalt	mg/kg	2.4	46.4	55.6	43.1	53.0	88	91	75-125	20	20	
Copper	mg/kg	11.2	46.4	55.6	47.0	54.3	77	78	75-125	14	20	
Iron	mg/kg	8530	464	556	8810	6350	59	-392	75-125	32	20	M0,R1
Lead	mg/kg	3.4	46.4	55.6	40.1	50.3	79	84	75-125	23	20	M0,R1
Magnesium	mg/kg	2320	464	556	2790	1770	103	-98	75-125	45	20	M0,R1
Manganese	mg/kg	83.3	46.4	55.6	144	118	132	63	75-125	20	20	M0
Nickel	mg/kg	4.1	46.4	55.6	44.5	52.9	87	88	75-125	17	20	
Potassium	mg/kg	1690	464	556	2610	1670	197	-4	75-125	44	20	M0,R1
Selenium	mg/kg	ND	46.4	55.6	36.6	44.7	79	80	75-125	20	20	
Silver	mg/kg	ND	23.3	27.9	20.3	24.8	87	89	75-125	20	20	
Sodium	mg/kg	68.6	464	556	544	583	102	92	75-125	7	20	
Thallium	mg/kg	ND	46.4	55.6	36.8	47.3	79	85	75-125	25	20	M0,R1
Vanadium	mg/kg	10.3	46.4	55.6	56.4	61.4	99	92	75-125	8	20	
Zinc	mg/kg	25.5	46.4	55.6	67.8	67.3	91	75	75-125	1	20	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch: MPRP/16092 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60109998001, 60109998002, 60109998005, 60109998007

METHOD BLANK: 911233 Matrix: Water
Associated Lab Samples: 60109998001, 60109998002, 60109998005, 60109998007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	11/15/11 11:22	
Antimony, Dissolved	ug/L	ND	10.0	11/15/11 11:22	
Arsenic, Dissolved	ug/L	ND	10.0	11/15/11 11:22	
Barium, Dissolved	ug/L	ND	10.0	11/15/11 11:22	
Beryllium, Dissolved	ug/L	ND	1.0	11/15/11 11:22	
Cadmium, Dissolved	ug/L	ND	5.0	11/15/11 11:22	
Calcium, Dissolved	ug/L	ND	100	11/15/11 11:22	
Chromium, Dissolved	ug/L	18.9	5.0	11/15/11 11:22	
Cobalt, Dissolved	ug/L	ND	5.0	11/15/11 11:22	
Copper, Dissolved	ug/L	ND	10.0	11/15/11 11:22	
Iron, Dissolved	ug/L	85.7	50.0	11/15/11 11:22	
Lead, Dissolved	ug/L	ND	5.0	11/15/11 11:22	
Magnesium, Dissolved	ug/L	ND	50.0	11/15/11 11:22	
Manganese, Dissolved	ug/L	5.2	5.0	11/15/11 11:22	
Nickel, Dissolved	ug/L	7.3	5.0	11/15/11 11:22	
Potassium, Dissolved	ug/L	ND	500	11/15/11 11:22	
Selenium, Dissolved	ug/L	ND	15.0	11/15/11 11:22	
Silver, Dissolved	ug/L	ND	7.0	11/15/11 11:22	
Sodium, Dissolved	ug/L	ND	500	11/15/11 11:22	
Thallium, Dissolved	ug/L	ND	20.0	11/15/11 11:22	
Vanadium, Dissolved	ug/L	ND	10.0	11/15/11 11:22	
Zinc, Dissolved	ug/L	ND	50.0	11/15/11 11:22	

LABORATORY CONTROL SAMPLE: 911234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9490	95	80-120	
Antimony, Dissolved	ug/L	1000	986	99	80-120	
Arsenic, Dissolved	ug/L	1000	961	96	80-120	
Barium, Dissolved	ug/L	1000	968	97	80-120	
Beryllium, Dissolved	ug/L	1000	1010	101	80-120	
Cadmium, Dissolved	ug/L	1000	978	98	80-120	
Calcium, Dissolved	ug/L	10000	9610	96	80-120	
Chromium, Dissolved	ug/L	1000	1010	101	80-120	
Cobalt, Dissolved	ug/L	1000	1020	102	80-120	
Copper, Dissolved	ug/L	1000	965	97	80-120	
Iron, Dissolved	ug/L	10000	9700	97	80-120	
Lead, Dissolved	ug/L	1000	1050	105	80-120	
Magnesium, Dissolved	ug/L	10000	10100	101	80-120	
Manganese, Dissolved	ug/L	1000	1020	102	80-120	
Nickel, Dissolved	ug/L	1000	1030	103	80-120	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 27 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

LABORATORY CONTROL SAMPLE: 911234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Potassium, Dissolved	ug/L	10000	9640	96	80-120	
Selenium, Dissolved	ug/L	1000	986	99	80-120	
Silver, Dissolved	ug/L	500	495	99	80-120	
Sodium, Dissolved	ug/L	10000	9690	97	80-120	
Thallium, Dissolved	ug/L	1000	1060	106	80-120	
Vanadium, Dissolved	ug/L	1000	984	98	80-120	
Zinc, Dissolved	ug/L	1000	1010	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 911235 911236

Parameter	Units	60109659001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	20000	20000	19100	19000	95	95	75-125	0	20	
Antimony, Dissolved	ug/L	ND	2000	2000	1890	1910	95	95	75-125	1	20	
Arsenic, Dissolved	ug/L	16.3	2000	2000	1900	1890	94	93	75-125	1	20	
Barium, Dissolved	ug/L	ND	2000	2000	1940	1940	97	96	75-125	0	20	
Beryllium, Dissolved	ug/L	ND	2000	2000	2100	2090	105	105	75-125	0	20	
Cadmium, Dissolved	ug/L	ND	2000	2000	1920	1920	96	96	75-125	0	20	
Calcium, Dissolved	ug/L	1140	20000	20000	20600	20700	97	98	75-125	0	20	
Chromium, Dissolved	ug/L	ND	2000	2000	2050	2040	102	102	75-125	0	20	
Cobalt, Dissolved	ug/L	ND	2000	2000	1960	1960	98	98	75-125	0	20	
Copper, Dissolved	ug/L	ND	2000	2000	1900	1910	95	95	75-125	0	20	
Iron, Dissolved	ug/L	73.4	20000	20000	19600	19600	98	98	75-125	0	20	
Lead, Dissolved	ug/L	ND	2000	2000	1900	1900	95	95	75-125	1	20	
Magnesium, Dissolved	ug/L	252	20000	20000	19000	18900	94	93	75-125	0	20	
Manganese, Dissolved	ug/L	34.3	2000	2000	2070	2050	102	101	75-125	1	20	
Nickel, Dissolved	ug/L	8.8	2000	2000	1950	1950	97	97	75-125	0	20	
Potassium, Dissolved	ug/L	3840	20000	20000	23000	22900	96	95	75-125	0	20	
Selenium, Dissolved	ug/L	ND	2000	2000	1850	1850	93	92	75-125	0	20	
Silver, Dissolved	ug/L	ND	1000	1000	977	967	98	97	75-125	1	20	
Sodium, Dissolved	ug/L	78700	20000	20000	91700	92300	65	68	75-125	1	20	MO
Thallium, Dissolved	ug/L	ND	2000	2000	1890	1910	95	95	75-125	1	20	
Vanadium, Dissolved	ug/L	ND	2000	2000	2000	1990	100	99	75-125	1	20	
Zinc, Dissolved	ug/L	ND	2000	2000	2000	1990	100	99	75-125	1	20	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch: MPRP/16129

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET Dissolved

Associated Lab Samples: 60109998001

METHOD BLANK: 912402

Matrix: Water

Associated Lab Samples: 60109998001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	50.0	11/16/11 17:36	

LABORATORY CONTROL SAMPLE: 912403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	9740	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 912404

912405

Parameter	Units	60109998001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	ND	50000	50000	44300	51500	89	103	75-125	15	20	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch:	MSV/41683	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60109998005, 60109998006, 60109998007		

METHOD BLANK: 910150 Matrix: Water

Associated Lab Samples: 60109998005, 60109998006, 60109998007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/12/11 09:43	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/12/11 09:43	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/12/11 09:43	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/12/11 09:43	
1,1-Dichloroethane	ug/L	ND	1.0	11/12/11 09:43	
1,1-Dichloroethene	ug/L	ND	1.0	11/12/11 09:43	
1,1-Dichloropropene	ug/L	ND	1.0	11/12/11 09:43	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/12/11 09:43	
1,2,3-Trichloropropane	ug/L	ND	2.5	11/12/11 09:43	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/12/11 09:43	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/12/11 09:43	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	11/12/11 09:43	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/12/11 09:43	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/12/11 09:43	
1,2-Dichloroethane	ug/L	ND	1.0	11/12/11 09:43	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/12/11 09:43	
1,2-Dichloropropane	ug/L	ND	1.0	11/12/11 09:43	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/12/11 09:43	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/12/11 09:43	
1,3-Dichloropropane	ug/L	ND	1.0	11/12/11 09:43	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/12/11 09:43	
2,2-Dichloropropane	ug/L	ND	1.0	11/12/11 09:43	
2-Butanone (MEK)	ug/L	ND	10.0	11/12/11 09:43	
2-Chlorotoluene	ug/L	ND	1.0	11/12/11 09:43	
2-Hexanone	ug/L	ND	10.0	11/12/11 09:43	
4-Chlorotoluene	ug/L	ND	1.0	11/12/11 09:43	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/12/11 09:43	
Acetone	ug/L	ND	10.0	11/12/11 09:43	
Benzene	ug/L	ND	1.0	11/12/11 09:43	
Bromobenzene	ug/L	ND	1.0	11/12/11 09:43	
Bromochloromethane	ug/L	ND	1.0	11/12/11 09:43	
Bromodichloromethane	ug/L	ND	1.0	11/12/11 09:43	
Bromoform	ug/L	ND	1.0	11/12/11 09:43	
Bromomethane	ug/L	ND	1.0	11/12/11 09:43	
Carbon disulfide	ug/L	ND	5.0	11/12/11 09:43	
Carbon tetrachloride	ug/L	ND	1.0	11/12/11 09:43	
Chlorobenzene	ug/L	ND	1.0	11/12/11 09:43	
Chloroethane	ug/L	ND	1.0	11/12/11 09:43	
Chloroform	ug/L	ND	1.0	11/12/11 09:43	
Chloromethane	ug/L	ND	1.0	11/12/11 09:43	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/12/11 09:43	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/12/11 09:43	
Dibromochloromethane	ug/L	ND	1.0	11/12/11 09:43	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 30 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

METHOD BLANK: 910150

Matrix: Water

Associated Lab Samples: 60109998005, 60109998006, 60109998007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	11/12/11 09:43	
Dichlorodifluoromethane	ug/L	ND	1.0	11/12/11 09:43	
Ethylbenzene	ug/L	ND	1.0	11/12/11 09:43	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/12/11 09:43	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/12/11 09:43	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/12/11 09:43	
Methylene chloride	ug/L	ND	1.0	11/12/11 09:43	
n-Butylbenzene	ug/L	ND	1.0	11/12/11 09:43	
n-Propylbenzene	ug/L	ND	1.0	11/12/11 09:43	
Naphthalene	ug/L	ND	10.0	11/12/11 09:43	
p-Isopropyltoluene	ug/L	ND	1.0	11/12/11 09:43	
sec-Butylbenzene	ug/L	ND	1.0	11/12/11 09:43	
Styrene	ug/L	ND	1.0	11/12/11 09:43	
tert-Butylbenzene	ug/L	ND	1.0	11/12/11 09:43	
Tetrachloroethene	ug/L	ND	1.0	11/12/11 09:43	
Toluene	ug/L	ND	1.0	11/12/11 09:43	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/12/11 09:43	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/12/11 09:43	
Trichloroethene	ug/L	ND	1.0	11/12/11 09:43	
Trichlorofluoromethane	ug/L	ND	1.0	11/12/11 09:43	
Vinyl chloride	ug/L	ND	1.0	11/12/11 09:43	
Xylene (Total)	ug/L	ND	3.0	11/12/11 09:43	
1,2-Dichloroethane-d4 (S)	%	103	82-119	11/12/11 09:43	
4-Bromofluorobenzene (S)	%	103	87-113	11/12/11 09:43	
Dibromofluoromethane (S)	%	107	86-112	11/12/11 09:43	
Toluene-d8 (S)	%	96	90-110	11/12/11 09:43	

LABORATORY CONTROL SAMPLE: 910151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	97	81-121	
1,1,1-Trichloroethane	ug/L	20	20.4	102	82-119	
1,1,2,2-Tetrachloroethane	ug/L	20	20.5	102	78-124	
1,1,2-Trichloroethane	ug/L	20	19.6	98	79-121	
1,1-Dichloroethane	ug/L	20	18.9	94	73-119	
1,1-Dichloroethene	ug/L	20	17.4	87	75-120	
1,1-Dichloropropene	ug/L	20	18.4	92	79-123	
1,2,3-Trichlorobenzene	ug/L	20	19.4	97	73-122	
1,2,3-Trichloropropane	ug/L	20	20.7	103	77-124	
1,2,4-Trichlorobenzene	ug/L	20	19.8	99	75-120	
1,2,4-Trimethylbenzene	ug/L	20	20.2	101	77-120	
1,2-Dibromo-3-chloropropane	ug/L	20	17.6	88	69-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.3	102	85-121	
1,2-Dichlorobenzene	ug/L	20	19.9	99	82-115	
1,2-Dichloroethane	ug/L	20	20.9	105	77-125	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 31 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

LABORATORY CONTROL SAMPLE: 910151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	40.4	101	79-120	
1,2-Dichloropropane	ug/L	20	19.0	95	83-119	
1,3,5-Trimethylbenzene	ug/L	20	19.8	99	79-121	
1,3-Dichlorobenzene	ug/L	20	19.5	97	79-117	
1,3-Dichloropropane	ug/L	20	18.8	94	78-116	
1,4-Dichlorobenzene	ug/L	20	20.0	100	83-115	
2,2-Dichloropropane	ug/L	20	20.0	100	66-123	
2-Butanone (MEK)	ug/L	100	99.8	100	43-165	
2-Chlorotoluene	ug/L	20	19.5	97	81-117	
2-Hexanone	ug/L	100	93.9	94	47-159	
4-Chlorotoluene	ug/L	20	20.7	104	84-116	
4-Methyl-2-pentanone (MIBK)	ug/L	100	87.3	87	71-129	
Acetone	ug/L	100	129	129	18-192	
Benzene	ug/L	20	19.5	98	82-117	
Bromobenzene	ug/L	20	19.5	98	83-116	
Bromochloromethane	ug/L	20	19.2	96	79-121	
Bromodichloromethane	ug/L	20	19.6	98	79-114	
Bromoform	ug/L	20	17.9	89	78-121	
Bromomethane	ug/L	20	16.1	80	36-146	
Carbon disulfide	ug/L	20	18.8	94	75-138	
Carbon tetrachloride	ug/L	20	20.5	103	80-123	
Chlorobenzene	ug/L	20	19.7	99	83-121	
Chloroethane	ug/L	20	17.4	87	42-166	
Chloroform	ug/L	20	19.9	100	82-116	
Chloromethane	ug/L	20	10.2	51	32-127	
cis-1,2-Dichloroethene	ug/L	20	19.4	97	80-119	
cis-1,3-Dichloropropene	ug/L	20	20.5	102	76-119	
Dibromochloromethane	ug/L	20	20.1	101	81-123	
Dibromomethane	ug/L	20	21.1	105	79-123	
Dichlorodifluoromethane	ug/L	20	6.8	34	10-163	
Ethylbenzene	ug/L	20	20.5	102	79-121	
Hexachloro-1,3-butadiene	ug/L	20	18.2	91	78-125	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	80-120	
Methyl-tert-butyl ether	ug/L	20	20.5	103	78-119	
Methylene chloride	ug/L	20	21.2	106	75-118	
n-Butylbenzene	ug/L	20	20.5	102	80-126	
n-Propylbenzene	ug/L	20	19.7	99	83-116	
Naphthalene	ug/L	20	20.4	102	66-133	
p-Isopropyltoluene	ug/L	20	20.4	102	77-120	
sec-Butylbenzene	ug/L	20	20.3	101	81-120	
Styrene	ug/L	20	19.6	98	84-115	
tert-Butylbenzene	ug/L	20	20.2	101	80-117	
Tetrachloroethene	ug/L	20	19.6	98	80-124	
Toluene	ug/L	20	19.2	96	80-120	
trans-1,2-Dichloroethene	ug/L	20	20.9	105	79-120	
trans-1,3-Dichloropropene	ug/L	20	20.5	103	76-118	
Trichloroethene	ug/L	20	19.6	98	76-122	
Trichlorofluoromethane	ug/L	20	17.1	86	72-120	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 32 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

LABORATORY CONTROL SAMPLE: 910151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	13.6	68	57-163	
Xylene (Total)	ug/L	60	59.5	99	75-120	
1,2-Dichloroethane-d4 (S)	%			101	82-119	
4-Bromofluorobenzene (S)	%			101	87-113	
Dibromofluoromethane (S)	%			104	86-112	
Toluene-d8 (S)	%			97	90-110	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch: MSV/41638

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 60109998008, 60109998009, 60109998010

METHOD BLANK: 909341

Matrix: Solid

Associated Lab Samples: 60109998008, 60109998009, 60109998010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	11/11/11 10:14	
1,1,1-Trichloroethane	ug/kg	ND	5.0	11/11/11 10:14	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	11/11/11 10:14	
1,1,2-Trichloroethane	ug/kg	ND	5.0	11/11/11 10:14	
1,1-Dichloroethane	ug/kg	ND	5.0	11/11/11 10:14	
1,1-Dichloroethene	ug/kg	ND	5.0	11/11/11 10:14	
1,1-Dichloropropene	ug/kg	ND	5.0	11/11/11 10:14	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	11/11/11 10:14	
1,2,3-Trichloropropane	ug/kg	ND	5.0	11/11/11 10:14	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	11/11/11 10:14	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	11/11/11 10:14	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	11/11/11 10:14	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	11/11/11 10:14	
1,2-Dichlorobenzene	ug/kg	ND	5.0	11/11/11 10:14	
1,2-Dichloroethane	ug/kg	ND	5.0	11/11/11 10:14	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	11/11/11 10:14	
1,2-Dichloropropane	ug/kg	ND	5.0	11/11/11 10:14	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	11/11/11 10:14	
1,3-Dichlorobenzene	ug/kg	ND	5.0	11/11/11 10:14	
1,3-Dichloropropane	ug/kg	ND	5.0	11/11/11 10:14	
1,4-Dichlorobenzene	ug/kg	ND	5.0	11/11/11 10:14	
2,2-Dichloropropane	ug/kg	ND	5.0	11/11/11 10:14	
2-Butanone (MEK)	ug/kg	ND	10.0	11/11/11 10:14	
2-Chlorotoluene	ug/kg	ND	5.0	11/11/11 10:14	
2-Hexanone	ug/kg	ND	20.0	11/11/11 10:14	
4-Chlorotoluene	ug/kg	ND	5.0	11/11/11 10:14	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	11/11/11 10:14	
Acetone	ug/kg	ND	20.0	11/11/11 10:14	
Benzene	ug/kg	ND	5.0	11/11/11 10:14	
Bromobenzene	ug/kg	ND	5.0	11/11/11 10:14	
Bromochloromethane	ug/kg	ND	5.0	11/11/11 10:14	
Bromodichloromethane	ug/kg	ND	5.0	11/11/11 10:14	
Bromoform	ug/kg	ND	5.0	11/11/11 10:14	
Bromomethane	ug/kg	ND	5.0	11/11/11 10:14	
Carbon disulfide	ug/kg	ND	5.0	11/11/11 10:14	
Carbon tetrachloride	ug/kg	ND	5.0	11/11/11 10:14	
Chlorobenzene	ug/kg	ND	5.0	11/11/11 10:14	
Chloroethane	ug/kg	ND	5.0	11/11/11 10:14	
Chloroform	ug/kg	ND	5.0	11/11/11 10:14	
Chloromethane	ug/kg	ND	5.0	11/11/11 10:14	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	11/11/11 10:14	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	11/11/11 10:14	
Dibromochloromethane	ug/kg	ND	5.0	11/11/11 10:14	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 34 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

METHOD BLANK: 909341

Matrix: Solid

Associated Lab Samples: 60109998008, 60109998009, 60109998010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	11/11/11 10:14	
Dichlorodifluoromethane	ug/kg	ND	5.0	11/11/11 10:14	
Ethylbenzene	ug/kg	ND	5.0	11/11/11 10:14	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	11/11/11 10:14	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	11/11/11 10:14	
Methyl-tert-butyl ether	ug/kg	ND	5.0	11/11/11 10:14	
Methylene chloride	ug/kg	ND	5.0	11/11/11 10:14	
n-Butylbenzene	ug/kg	ND	5.0	11/11/11 10:14	
n-Propylbenzene	ug/kg	ND	5.0	11/11/11 10:14	
Naphthalene	ug/kg	ND	10.0	11/11/11 10:14	
p-Isopropyltoluene	ug/kg	ND	5.0	11/11/11 10:14	
sec-Butylbenzene	ug/kg	ND	5.0	11/11/11 10:14	
Styrene	ug/kg	ND	5.0	11/11/11 10:14	
tert-Butylbenzene	ug/kg	ND	5.0	11/11/11 10:14	
Tetrachloroethene	ug/kg	ND	5.0	11/11/11 10:14	
Toluene	ug/kg	ND	5.0	11/11/11 10:14	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	11/11/11 10:14	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	11/11/11 10:14	
Trichloroethene	ug/kg	ND	5.0	11/11/11 10:14	
Trichlorofluoromethane	ug/kg	ND	5.0	11/11/11 10:14	
Vinyl chloride	ug/kg	ND	5.0	11/11/11 10:14	
Xylene (Total)	ug/kg	ND	5.0	11/11/11 10:14	
1,2-Dichloroethane-d4 (S)	%	99	77-131	11/11/11 10:14	
4-Bromofluorobenzene (S)	%	99	75-131	11/11/11 10:14	
Dibromofluoromethane (S)	%	99	68-129	11/11/11 10:14	
Toluene-d8 (S)	%	101	81-121	11/11/11 10:14	

LABORATORY CONTROL SAMPLE: 909342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	99.7	100	86-124	
1,1,1-Trichloroethane	ug/kg	100	98.2	98	83-119	
1,1,2,2-Tetrachloroethane	ug/kg	100	88.2	88	83-120	
1,1,2-Trichloroethane	ug/kg	100	91.1	91	85-120	
1,1-Dichloroethane	ug/kg	100	94.4	94	82-118	
1,1-Dichloroethene	ug/kg	100	87.2	87	78-125	
1,1-Dichloropropene	ug/kg	100	96.0	96	82-122	
1,2,3-Trichlorobenzene	ug/kg	100	96.4	96	81-126	
1,2,3-Trichloropropane	ug/kg	100	91.2	91	82-120	
1,2,4-Trichlorobenzene	ug/kg	100	98.7	99	74-122	
1,2,4-Trimethylbenzene	ug/kg	100	96.1	96	80-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	98.7	99	73-120	
1,2-Dibromoethane (EDB)	ug/kg	100	97.2	97	85-121	
1,2-Dichlorobenzene	ug/kg	100	93.1	93	83-120	
1,2-Dichloroethane	ug/kg	100	92.7	93	80-120	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 35 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

LABORATORY CONTROL SAMPLE: 909342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	200	201	101	84-121	
1,2-Dichloropropane	ug/kg	100	95.6	96	85-118	
1,3,5-Trimethylbenzene	ug/kg	100	97.2	97	83-121	
1,3-Dichlorobenzene	ug/kg	100	94.2	94	81-117	
1,3-Dichloropropane	ug/kg	100	90.4	90	84-122	
1,4-Dichlorobenzene	ug/kg	100	95.8	96	80-117	
2,2-Dichloropropane	ug/kg	100	93.3	93	76-121	
2-Butanone (MEK)	ug/kg	500	699	140	66-123	L0
2-Chlorotoluene	ug/kg	100	97.6	98	83-120	
2-Hexanone	ug/kg	500	724	145	79-127	L0
4-Chlorotoluene	ug/kg	100	96.1	96	81-119	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	484	97	78-122	
Acetone	ug/kg	500	1070	213	63-123	L0
Benzene	ug/kg	100	94.1	94	84-119	
Bromobenzene	ug/kg	100	97.3	97	85-119	
Bromochloromethane	ug/kg	100	90.6	91	82-123	
Bromodichloromethane	ug/kg	100	94.0	94	84-126	
Bromoform	ug/kg	100	100	100	73-112	
Bromomethane	ug/kg	100	99.4	99	66-132	
Carbon disulfide	ug/kg	100	104	104	62-150	
Carbon tetrachloride	ug/kg	100	104	104	78-126	
Chlorobenzene	ug/kg	100	95.7	96	83-116	
Chloroethane	ug/kg	100	95.7	96	79-132	
Chloroform	ug/kg	100	90.8	91	79-115	
Chloromethane	ug/kg	100	78.6	79	61-141	
cis-1,2-Dichloroethene	ug/kg	100	93.6	94	83-120	
cis-1,3-Dichloropropene	ug/kg	100	98.3	98	86-124	
Dibromochloromethane	ug/kg	100	98.6	99	78-117	
Dibromomethane	ug/kg	100	96.5	96	58-117	
Dichlorodifluoromethane	ug/kg	100	68.8	69	32-177	
Ethylbenzene	ug/kg	100	97.5	98	80-120	
Hexachloro-1,3-butadiene	ug/kg	100	97.9	98	77-125	
Isopropylbenzene (Cumene)	ug/kg	100	101	101	72-120	
Methyl-tert-butyl ether	ug/kg	100	91.3	91	80-125	
Methylene chloride	ug/kg	100	104	104	50-150	
n-Butylbenzene	ug/kg	100	102	102	75-132	
n-Propylbenzene	ug/kg	100	99.2	99	79-119	
Naphthalene	ug/kg	100	89.5	90	75-131	
p-Isopropyltoluene	ug/kg	100	100	100	79-119	
sec-Butylbenzene	ug/kg	100	100	100	82-124	
Styrene	ug/kg	100	91.5	92	82-120	
tert-Butylbenzene	ug/kg	100	101	101	82-121	
Tetrachloroethene	ug/kg	100	99.6	100	81-119	
Toluene	ug/kg	100	96.3	96	83-117	
trans-1,2-Dichloroethene	ug/kg	100	108	108	84-123	
trans-1,3-Dichloropropene	ug/kg	100	102	102	74-115	
Trichloroethene	ug/kg	100	98.4	98	84-117	
Trichlorofluoromethane	ug/kg	100	88.4	88	79-127	

Date: 11/17/2011 02:30 PM

REPORT OF LABORATORY ANALYSIS

Page 36 of 44

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

LABORATORY CONTROL SAMPLE: 909342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	100	84.2	84	67-128	
Xylene (Total)	ug/kg	300	291	97	80-120	
1,2-Dichloroethane-d4 (S)	%			95	77-131	
4-Bromofluorobenzene (S)	%			100	75-131	
Dibromofluoromethane (S)	%			99	68-129	
Toluene-d8 (S)	%			101	81-121	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch: OEXT/31098

Analysis Method: EPA 8082

QC Batch Method: EPA 3580 (Wipe)

Analysis Description: 8082 GCS PCB Wipe

Associated Lab Samples: 60109998011

METHOD BLANK: 909267

Matrix: Wipe

Associated Lab Samples: 60109998011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	Total ug-	ND	1.0	11/14/11 16:05	
PCB-1221 (Aroclor 1221)	Total ug-	ND	1.0	11/14/11 16:05	
PCB-1232 (Aroclor 1232)	Total ug-	ND	1.0	11/14/11 16:05	
PCB-1242 (Aroclor 1242)	Total ug-	ND	1.0	11/14/11 16:05	
PCB-1248 (Aroclor 1248)	Total ug-	ND	1.0	11/14/11 16:05	
PCB-1254 (Aroclor 1254)	Total ug-	ND	1.0	11/14/11 16:05	
PCB-1260 (Aroclor 1260)	Total ug-	ND	1.0	11/14/11 16:05	
Decachlorobiphenyl (S)	%	103	44-115	11/14/11 16:05	
Tetrachloro-m-xylene (S)	%	100	48-118	11/14/11 16:05	

LABORATORY CONTROL SAMPLE: 909268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	Total ug-	5	5.3	106	72-112	
PCB-1260 (Aroclor 1260)	Total ug-	5	5.1	103	64-116	
Decachlorobiphenyl (S)	%			103	44-115	
Tetrachloro-m-xylene (S)	%			101	48-118	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch:	PMST/6730	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	60109998003, 60109998004, 60109998008, 60109998009, 60109998010		

METHOD BLANK: 910904 Matrix: Solid

Associated Lab Samples: 60109998003, 60109998004, 60109998008, 60109998009, 60109998010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	11/14/11 00:00	

SAMPLE DUPLICATE: 911126

Parameter	Units	60109647001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	96.6	96.6	0	20	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch: WET/32020 Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60109998005, 60109998006, 60109998007

METHOD BLANK: 909394 Matrix: Water

Associated Lab Samples: 60109998005, 60109998006, 60109998007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	11/11/11 11:10	

LABORATORY CONTROL SAMPLE: 909395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.8	92	78-114	

MATRIX SPIKE SAMPLE: 909396

Parameter	Units	60109998005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	42.1	36.2	84	78-114	

SAMPLE DUPLICATE: 909397

Parameter	Units	60109998006 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	ND		18	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch: WET/32038 Analysis Method: EPA 9071
QC Batch Method: EPA 9071 Analysis Description: 9071 ASE, Oil and Grease
Associated Lab Samples: 60109998008, 60109998009, 60109998010

METHOD BLANK: 910107 Matrix: Solid

Associated Lab Samples: 60109998008, 60109998009, 60109998010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/kg	ND	200	11/16/11 00:00	

LABORATORY CONTROL SAMPLE: 910108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/kg	2000	1880	94	72-129	

MATRIX SPIKE SAMPLE: 910109

Parameter	Units	60109998008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/kg	ND	2350	1950	83	30-150	

SAMPLE DUPLICATE: 910110

Parameter	Units	60109998009 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/kg	ND	ND		31	

QUALITY CONTROL DATA

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

QC Batch: WETA/18289

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 60109998001, 60109998002

METHOD BLANK: 910927

Matrix: Water

Associated Lab Samples: 60109998001, 60109998002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	11/15/11 10:44	

LABORATORY CONTROL SAMPLE: 910928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 910929

910930

Parameter	Units	60109697001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	223	100	100	321	319	98	96	61-119	1	10	

MATRIX SPIKE SAMPLE: 910931

Parameter	Units	60109998001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L		9.0	5	13.7	94	61-119

QUALIFIERS

Project: Ute Highway Water Treatment PI
Pace Project No.: 60109998

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

BATCH QUALIFIERS

Batch: OEXT/31098

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/41638

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/41683

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B+ Analyte was detected in the associated method blank as well as in the sample.

B- Analyte detected in method blank but was not detected in the associated samples.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ute Highway Water Treatment PI

Pace Project No.: 60109998

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60109998011	PCB W-6	EPA 3580 (Wipe)	OEXT/31098	EPA 8082	GCSV/11526
60109998003	GB-1 SOIL	EPA 3050	MPRP/16076	EPA 6010	ICP/13876
60109998004	GB-2 SOIL	EPA 3050	MPRP/16076	EPA 6010	ICP/13876
60109998008	GB-3 SOIL	EPA 3050	MPRP/16076	EPA 6010	ICP/13876
60109998009	GB-4 SOIL	EPA 3050	MPRP/16076	EPA 6010	ICP/13876
60109998010	GB-5 SOIL	EPA 3050	MPRP/16076	EPA 6010	ICP/13876
60109998001	GB-1 WATER	EPA 3010	MPRP/16092	EPA 6010	ICP/13886
60109998001	GB-1 WATER	EPA 3010	MPRP/16129	EPA 6010	ICP/13921
60109998002	GB-2 WATER	EPA 3010	MPRP/16092	EPA 6010	ICP/13886
60109998005	GB-3 WATER	EPA 3010	MPRP/16092	EPA 6010	ICP/13886
60109998007	GB-5 WATER	EPA 3010	MPRP/16092	EPA 6010	ICP/13886
60109998001	GB-1 WATER	EPA 7470	MERP/5802	EPA 7470	MERC/5762
60109998002	GB-2 WATER	EPA 7470	MERP/5802	EPA 7470	MERC/5762
60109998005	GB-3 WATER	EPA 7470	MERP/5802	EPA 7470	MERC/5762
60109998007	GB-5 WATER	EPA 7470	MERP/5802	EPA 7470	MERC/5762
60109998003	GB-1 SOIL	EPA 7471	MERP/5806	EPA 7471	MERC/5771
60109998004	GB-2 SOIL	EPA 7471	MERP/5806	EPA 7471	MERC/5771
60109998008	GB-3 SOIL	EPA 7471	MERP/5806	EPA 7471	MERC/5771
60109998009	GB-4 SOIL	EPA 7471	MERP/5806	EPA 7471	MERC/5771
60109998010	GB-5 SOIL	EPA 7471	MERP/5806	EPA 7471	MERC/5771
60109998005	GB-3 WATER	EPA 5030B/8260	MSV/41683		
60109998006	GB-4 WATER	EPA 5030B/8260	MSV/41683		
60109998007	GB-5 WATER	EPA 5030B/8260	MSV/41683		
60109998008	GB-3 SOIL	EPA 8260	MSV/41638		
60109998009	GB-4 SOIL	EPA 8260	MSV/41638		
60109998010	GB-5 SOIL	EPA 8260	MSV/41638		
60109998003	GB-1 SOIL	ASTM D2974-87	PMST/6730		
60109998004	GB-2 SOIL	ASTM D2974-87	PMST/6730		
60109998008	GB-3 SOIL	ASTM D2974-87	PMST/6730		
60109998009	GB-4 SOIL	ASTM D2974-87	PMST/6730		
60109998010	GB-5 SOIL	ASTM D2974-87	PMST/6730		
60109998005	GB-3 WATER	EPA 1664A	WET/32020		
60109998006	GB-4 WATER	EPA 1664A	WET/32020		
60109998007	GB-5 WATER	EPA 1664A	WET/32020		
60109998008	GB-3 SOIL	EPA 9071	WET/32038	EPA 9071	WET/32090
60109998009	GB-4 SOIL	EPA 9071	WET/32038	EPA 9071	WET/32090
60109998010	GB-5 SOIL	EPA 9071	WET/32038	EPA 9071	WET/32090
60109998001	GB-1 WATER	EPA 300.0	WETA/18289		
60109998002	GB-2 WATER	EPA 300.0	WETA/18289		

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <u>Terracon</u>	Report To: <u>Craig Nelson</u>	Attention: <u>Mary Jane Wells</u>	Company Name: <u>Mary Jane Wells</u>	Invoice #	1412876
Address: <u>301 N. Howes</u>	Copy To:	Address:	REGULATORY AGENCY	Page: _____ of _____	
			☒ OPDES ☐ GROUND WATER ☐ DRINKING WATER		
			☐ RCRA ☐ OTHER _____		
Enrollment: <u>Enelson@terracan.com</u>	Purchase Order No.:	Pace Quote Reference:	☒ ST ☐ ST ☐ ST	Site Location	
Phone: <u>970-545-1345</u>	Project Name: <u>Ute Highway Water Treatment Plant</u>	Pace Project Reference:			
Requested Due Date/TAT:	Project Number:	Pace Profile #:			

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
							Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	<i>[Signature]</i> Terrason	11-8-11	1600	<i>[Signature]</i>	11-9-11	0920	2.3	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	<i>Craig Nelson</i>
SIGNATURE of SAMPLER:	<i>[Signature]</i>
DATE Signed (MM/DD/YYYY):	11-8-11

PagePackage P. 45 of 4



Sample Condition Upon Receipt

Client Name: Terraron FAC

Project # 6909998

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 876603375770 Pace Shipping Label Used? ☒ Yes ☐ No

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☒ Foam ☐ None ☒ Other EPIC

Thermometer Used: T-191 / T-194

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 3.3

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 11-9-11

Comments:

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☒ Yes ☐ No ☐ N/A	
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☒ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: <u>WT/SL</u>		
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
Exceptions: <u>VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics</u>	☒ Yes ☐ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☐ Yes ☐ No ☐ N/A	15.
Pace Trip Blank lot # (if purchased): <u>090511-3/101011-3</u>		
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	17. List State: _____

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: me

Date: 11/10/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX D – STANDARD OF CARE AND ADDITIONAL SCOPE LIMITATIONS

Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These LSI services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not restricted by ASTM E1903-11.

Additional Scope Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this LSI. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations, or exploratory services. The data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.