GW-032

ANNUAL GW MONITORING REPORT (1)

2010

Western Refining

GALLUP

WNR LISTED NYSE

August 31, 2011

FED EX: 8741 9709 8009
8741 9709 7995

Carl Chavez, Environmental Engineer
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

John E. Kieling, Acting Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, BLDG 1
Santa Fe NM 87505

Re: 2010 OCD Annual Ground Water Report

Dear Mr. Chavez and Mr. Kieling;

Western Refining is pleased to submit the 2010 Annual Ground Water Report for our Gallup Refinery. This report is being submitted to comply with the Discharge Permit 032, Condition 20.A. annual ground water reporting requirements.

Please do not hesitate to contact our office if you have any questions or concerns at (505) 722-0217.

Sincerely,

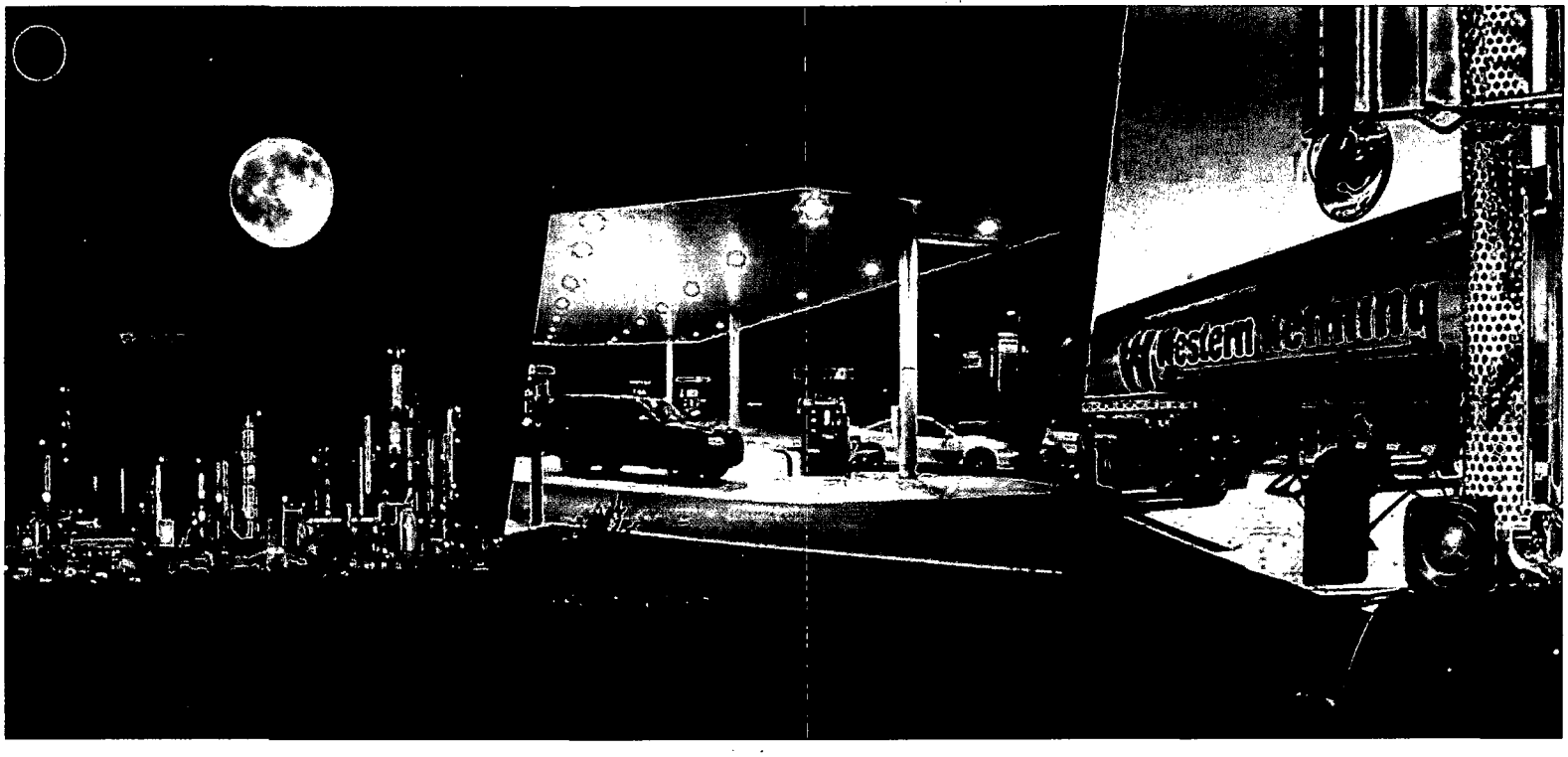
Ed Riege, Environmental Manager
(505) 722-0217
Ed.riege@wnr.com
cc: Mark Turri, General Manager

BINDER 1

Annual Groundwater Monitoring Report: Gallup Refinery - 2010

Western Refining
Gallup, New Mexico

August 31, 2011



Binder 1

Annual Groundwater Monitoring Report:
Gallup Refinery - 2010

Western Refining
Gallup, New Mexico

August 31. 2011

Prepared by:

Cheryl Johnson
Environmental Specialist

Reviewed by:

Ed Riege, MPH
Environmental Manager

Executive Summary

The Annual Ground Water Monitoring Report for 2010 (report) has been prepared in response to requirements stated in the Ground Water Discharge Permit, GW-032, issued by the Oil Conservation Division (OCD) of the New Mexico Energy Minerals and Natural Resources Department to the Gallup Refinery owned by Western Refining ("refinery"). Monitoring activities conducted for 2010 followed the guidelines from the Facility Wide Ground Water Monitoring Plan (August 25, 2010). This Executive Summary provides an overview of ground water monitoring results and additional monitoring and reporting required by the permit.

Ground Water Monitoring

There are a total of thirty-seven monitoring wells distributed within the boundaries of the refinery of which, sixteen monitoring wells are located along the perimeter of the aeration lagoons and evaporation ponds. The ground water program consists of a number of sampling locations, target analytes, and monitoring frequencies which are monitored on a quarterly, semi-annual, and annual basis. There are two major sections of the Refinery which have been defined as the East and the West side for periodic monitoring.

East Side Ground Water

Ground water monitoring activities on the East side have shown the presence of Methyl tert-butyl ether (MTBE) in four well locations (OW-13, OW-14, OW-29 and OW-30) on the northeast corner of the active refinery perimeter (but not the refinery property as a whole). In three wells OW-14, OW-29, and OW-30, MTBE is in the range of 0.12 ppm to 1.6 ppm and at levels above the EPA RSL standard of 0.012 ppm. In OW-13 trace levels of MTBE was detected in the first quarter of 2010 ranging from 0.0023 ppm first quarter to 0.0048 in the fourth quarter of 2010 which is below the EPA RSL standard of 0.012 ppm. Benzene detected in OW-14 (1.8 ppm) is above the WQCC 20NMAC 6.2.3103 standards for drinking water of 0.01 ppm. Down gradient wells were non-detect for Benzene, (below the levels of detection of analytical methods).

Two new wells (OW-50 and OW-52) installed in October 2009 down gradient of OW-30 and OW-29 have shown non-detect for BTEX for all four quarters of 2010. These wells were installed per NMED requirement dated May 28, 2009 to "determine if contamination has migrated north, northwest of the refinery and potentially offsite" from up gradient wells OW-13 and OW-29.

Within the perimeter of the active refinery in this north-east section, there are several shallow recovery wells from which separate-phase hydrocarbons have been recovered and still continue to be recovered, of the order of 0.66 gallons total in 2010.

West Side Ground Water

The West side consists of ground water monitoring wells near the aeration lagoons and alongside a series of large evaporation ponds. Immediately down gradient of the refinery's oil/water separator, a sample from a shallow ground water monitoring well (NAPIS-2) had MTBE at a level ranging from 0.25 ppm to 0.27 ppm greater than the EPA RSL standard of 0.012 ppm. Benzene levels range from 0.83 ppm to 0.015 in the fourth quarter which are above the WQCC 20NMAC 62.3103 standards of 0.01 ppm for benzene. Monitoring of well GWM-1 in 2010 has shown benzene concentrations between 0.012 ppm to 0.0069 ppm in the fourth quarter of 2010. RSL was also detected in concentrations above the WQCC 20NMAC 62.3103 standards in GWM-1 in 2010 at 1400 ppm.

Also located on the West side are a series of boundary (BW), observation (OW), monitoring (MW), process (PW) and shallow monitoring (SMW) wells. Among the wells on the far west side are two deep process water wells PW-2 and PW-4, neither of these wells has ever been known to have any detectable levels of any constituents. In one event in 2007, a semi-volatile hydrocarbon was detected in PW-3 that is located on the East side. PW-3 was re-sampled and no semi-volatile hydrocarbon was detected. In 2010 PW-3 was sampled for semi-volatiles and BTEX; results were non-detect for both. PW-3 will continue to be sampled on an annual basis as directed in the Facility Wide Ground Water Report dated August 25, 2010. SMW-2 has shown levels of RSL above the NMWQ standards and Fluoride has also been detected in some of the boundary wells that are above the NMWQ standards from 2004 to 2009.

Additional Monitoring and Reporting

As part of our Groundwater Permit GW-032, additional reporting is required on an annual basis and is provided in this report. This reporting includes:

- Monitoring of the aeration lagoons, ponds, and outfalls between the lagoons and ponds on a quarterly, semi-annual and annual basis.
- Summary of Waste Water Treated and Water Balance
- Summary of Underground Waste Water Lines Tested
- Summary of all EPA/NMED/RCRA Activity
- Major Refinery Activities and Events
- Summary of all Leaks, Spills and Releases
- Perimeter Inspections
- Temporary Land Farm Monitoring
- Monthly Flow Rate to NAPIS.

There were no deviations from the sampling requirements of the OCD permit GW-032. In the outfalls and evaporation ponds, results for Benzene indicated no levels above the WQCC 20NMAC 62.3103 standards of 0.01 ppm. Figure 2, a topographic map and Figure 3, an aerial photograph, depict the area topography and the general layout of the refinery.

TABLE OF CONTENTS

EXECUTIVE SUMMARY 3

1.0 INTRODUCTION 9
1.1 FACILITY OWNERSHIP, OPERATION AND LOCATION 10
1.2 BACKGROUND INFORMATION 10
1.3 SITE CHARACTERISTICS 13
2.0 SCOPE OF ACTIVITIES 2010 15
2.1 MONITORING AND SAMPLING PROGRAM 23
2.2 SAMPLING METHODS AND PROCEDURES 24
2.2.1 Equipment 26
2.3 COLLECTION AND MANAGEMENT OF INVESTIGATION DERIVED WASTE 26
2.4 COLLECTION OF SURFACE WATER SAMPLES 27
2.5 ANALYTICAL METHODS 27
2.6 PERIMETER SEARCH 27
2.7 REMEDIATION ACTIVITIES 27
3.0 GROUND WATER ELEVATION SURVEYS 28
4.0 REGULATORY CRITERIA 29
5.0 GROUND WATER ELEVATIONS AND SEPARATE-PHASE HYDROCARBONS 30
5.1 POTENTIOMETRIC MAP 30
6.0 GROUND WATER MONITORING RESULTS 31
6.1 MONITORING WELLS THAT HAVE CONSTITUENT LEVELS ABOVE STANDARDS 31
6.2 WELLS WITH CONSTITUENT LEVELS BELOW STANDARDS 44
6.3 DEVIATIONS FROM OCD GROUNDWATER DISCHARGE PERMIT GW-032 52
7.0 CONCLUSIONS 54
7.1 RECOMMENDATIONS 55
8.0 DATA TABLES 56
8.1 Effluents 57
8.2 Influents 68
8.3 Leak Detection Units 74
8.4 OW-1, OW-10 78
8.5 OW-13, OW-14, OW-29, OW-39 82
8.6 OW-50, OW-52 86
8.7 GWM-1, GWM-2, GWM-3 1 91
8.8 NAPIS-1, NAPIS-2, NAPIS-3, KA-3 56
8.9 BW to EP-2 103
8.10 Evaporation Ponds 105
8.11 BW Wells 122
8.12 EP-2 Inlet 128
8.13 MW Wells 131
8.14 OW-11, OW-12 136
8.15 SMW-2, SMW-4 139
8.16 PW-2, PW-3, PW-4 143
9.0 WELL SUMMARY TABLE 147
10.0 FIGURES 148

LIST OF FIGURES - Section 10

FIGURE 1. REGIONAL MAP 1 58

FIGURE 2. TOPOGRAPHIC MAP 1 59

FIGURE 3. AERIAL PHOTOGRAPH 1 (GALLUP REFINERY) 150

FIGURE 4. REGIONAL SCALE. 1 61

FIGURE 5. LOCALIZED SCALE 1 (FLOW LINES AND MAJOR SURFACE WATER BODIES (FROM: EPA ENVIROMAPPER - HTTP://MAP24.EPA.GOV/EMR/?ZOOMTOWATERSHED=15020006) NORTH IS TOWARDS THE TOP OF THE PAGE. THE POND TO THE EAST IS JON MYERS' LIVESTOCK POND. 152

FIGURE 6: FACILITIES AND WELLS 153

FIGURE 7: TYPICAL SOUTH-NORTH PROFILE 154

FIGURE 8: SOUTH-NORTH SECTION WESTERLY PLANT AREA 155

FIGURE 9: SONSELA WATER – PIZEOMETRIC SURFACE 156

FIGURE 10. CHINLE GROUP-ALLUVIUM INTERFACE WATER –PIZEOMETRIC SURFACE 157

FIGURE 11. GROUND WATER ELEVATION VS. TIME 158

FIGURE 12. ALLUVIAL/FLUVIAL UPPER SAND WATER ELEVATIONS 159

FIGURE 13. PRODUCT THICKNESS MAP 160

APPENDICES – Binder 1

Appendix A	Separated Phase Hydrocarbons Recovered (RW-1)
Appendix B	Applicable Standards
Appendix C	Well and field logs
Appendix D	Summary of Waste Water Treated and Water Balance
Appendix E	Summary of Underground Waste Water Lines Tested
Appendix F	Summary of All EPA/NMED/RCRA Activity
Appendix G	Major Refinery Activities and Events
Appendix H	Summary of all Leaks, Spills and Releases
Appendix I	Perimeter Inspections
Appendix J	Temporary Land Farm Analytical Results
Appendix K	Monthly Flow Rate to NAPIS

Binder 2, 3

Appendix L	Laboratory Analytical Reports

LIST OF ACRONYMS

AL	Aeration lagoons
BMPs	Best Management Practices
BOD	Biochemical Oxygen Demand
BTEX	Benzene, Toluene, Ethyl benzene, Xylene
BW	Boundary Well
COD	Chemical Oxygen Demand
DRO	Diesel Range Organics
EP	Evaporation ponds
EPA	Environmental Protection Agency
GPM	Gallons per minute
GRO	Gasoline Range Organics
GWM	Ground Water Monitoring Well
HWB	Hazardous Waste Bureau
MCLs	Maximum Contaminant Levels
MTBE	Methyl tert-butyl ether
MG/L	Milligrams/liter
MW	Monitoring Well
NAPIS	New American Petroleum Institute Separator
NMED	New Mexico Environment Department
NMWQS	New Mexico Water Quality Standards
OCD	Oil Conservation Division
OW	Observation Well
PPM	Parts per million
PW	Process Well
RSL	Regional Screening Level
RW	Recovery Well
SMW	Shallow Monitoring Well
SPH	Separate Phase Hydrocarbons
SVOC	Semi-volatile Organic Compounds
VOC	Volatile Organic Compounds
WQCC	Water Quality Control Commission
WWTP	Waste water treatment plant

1.0 Introduction

This Annual Ground Water Monitoring Report for 2010 has been prepared in response to requirements stated in the Ground Water Discharge Permit, GW-032, issued by the Oil Conservation Division (OCD) of the New Mexico Energy, Minerals and Natural Resources Department to the Gallup Refinery owned by Western Refining Southwest, Inc. ("Gallup Refinery").

This Report describes monitoring and remediation activities undertaken throughout 2010, and includes conclusions and recommendations. The ground water monitoring activities have collected data that are used to characterize the nature and extent of impacts to the ground water at the Gallup Refinery, and to recognize any levels of constituents that exceed applicable standards. These standards are those set by the New Mexico Water Quality Control Commission, WQCC 20 NMAC 6.2.3103, the U.S. Environmental Protection Agency's Maximum Contaminant Levels (MCLs) 40 CFR 141.62 and if WQCC or EPA MCLs do not exist for a constituent, levels are compared against the EPA Regional Screening Level (RSL) dated June 2011.

1.1 Facility Ownership, Operation and Location

This report pertains to the Western Refining Southwest Inc. Gallup Refinery located at Exit 39 on Interstate I-40. This refinery is known as the Gallup Refinery and is located at Jamestown New Mexico, approximately 17 miles east of Gallup. Figure 1 shows the regional location of the Gallup Refinery.

Owner: Western Refining, Inc., (Parent Corporation)
123 W. Mills Avenue
El Paso, TX 79901

Operator: Western Refining Southwest, Inc. (Postal address)
Route 3, Box 7
Gallup, New Mexico 87301

Western Refining Southwest, Inc. (Physical address)
I-40, Exit 39
Jamestown, New Mexico 87347

SIC code 2911 (petroleum refining) applies to the Gallup Refinery.

The following regulatory identification and permit governs the Gallup Refinery:

- U.S. EPA ID Number NMD000333211
- OCD Discharge Permit No. GW-032

The Refinery status is corrective action/compliance. Annual, semi-annual and quarterly ground water sampling is conducted at the Refinery to evaluate present conditions. The refinery is situated on an 810 acre irregular shaped tract of land that is substantially located within the lower one quarter of Section 28 and throughout Section 33 of Township 15 North, Range 15 West of the New Mexico Prime Meridian. A small component of the property lies within the northeastern one quarter of Section 4 of Township 14 North, Range 15 West. Figure 2 is a topographic map showing the general layout of the refinery in comparison to the local topography.

1.2 Background Information

The refinery primarily receives crude oil via two 6 inch diameter pipelines; two pipelines from the Four Corners Area enter the refinery property from the north. In addition, the refinery also receives natural gasoline feed stocks via a 4-inch diameter pipeline that comes in from the west along the Interstate 40 corridor from the Conoco gas plant. Crude oil and other products also arrive at the site via railroad cars. These feeds tocks are then stored in tanks until refined into products.

The refinery incorporates various processing units that refine crude oil and natural gasoline into finished products. These units are briefly described as follows.

- The Crude Distillation Unit separates crude oil into various fractions; including gas, naphtha, light oil, heavy oil, and residuals.

- The Fluidized Catalytic Cracking Unit (FCCU) dissociates long-chain hydrocarbon molecules into smaller molecules, and essentially converts heavier oils into naphtha and lighter oils.

- The Alkylation Unit combines specific types of hydrocarbon molecules into a high octane gasoline blending component.

- The Reforming Unit breaks up and reforms low octane naphtha molecules to form high octane naphtha.

- The Hydro treating Unit removes undesirable sulfur and nitrogen compounds from intermediate feed stocks, and also saturates the feeds tocks with hydrogen to make diesel fuel.

- Additional Treater Units also remove impurities from various intermediate and blending feed stocks to produce finished products that comply with sales specifications.

- The Isomerization Unit converts low octane hydrocarbon molecules into high octane molecules.

- A set of Acid Gas Treating and Sulfur Recovery Units convert and recover various sulfur compounds from other processing units in order to produce either Ammonium Thiosulfate or a solid elemental sulfur byproduct.

As a result of these processing steps, the refinery produces a wide range of petroleum products including propane, butane, unleaded gasoline, diesel, kerosene, and residual fuel. In addition to the aforementioned processing units, various other equipment and systems support the operation of the refinery and are briefly described as follows.

Storage tanks are used throughout the refinery to hold and store crude oil, natural gasoline, intermediate feeds tocks, finished products, chemicals, and water. These tanks are all located aboveground and range in size from 80,000 barrels to less than a 1,000 barrels.

Pumps, valves, and piping systems are used throughout the refinery to transfer various liquids among storage tanks and processing units.

A railroad spur track and a railcar loading rack are used to transfer feed stocks and products from refinery storage tanks into and out of railcars.

Several tank truck loading racks are used at the refinery to load out finished products and also may receive crude oil, other feed stocks, additives, and chemicals.

A pipeline from the refinery carries diesel fuel to the Pilot Travel Center (formerly Giant). Gasoline is delivered to the Pilot Center via tanker truck.

A designated training area is used to conduct employee firefighting training. During these training activities waste water and/or wash water drains directly into a dedicated tank that is located in the vicinity. The waste water is removed via a vacuum truck and disposed of upstream of the NAPIS. Oily water and sludge is transferred via vacuum truck to the API (NAPIS) for processing and oil-water separation.

The process waste water system is a network of curbing, paving, catch basins, and underground piping that collects waste water effluent from various processing areas within the refinery which is collected in the Tank 35 (Equalization Tank) and then conveys this waste water to the NAPIS.

The NAPIS is a two compartment oil water separator. Oil is separated from the water based on the principle of gravity separation where the oil will float to the water surface so it can be skimmed off. The skimmed slop oil is passed to a collection chamber where it is pumped back into the refinery process. The clarified water is piped to the top of dual stripping columns where benzene is removed. The stripped water flows into the first aeration lagoon (AL-1). Sludge sinks to the bottom of the NAPIS which is periodically vacuumed out by a vacuum truck and disposed as hazardous waste at an approved hazardous waste landfill or recycled and reused in refineries that have this allowable Oil Bearing Secondary Materials exemption under RCRA.

At the stripping columns, ambient air is blown upwards through the falling cascade of clarified waste water as it passes through distillation column packing. Countercurrent desorption of benzene from the water occurs due to the high volume of air passing over the relatively large surface area provided by the packing. The desorbed benzene is absorbed into the air stream and vented to the atmosphere. Effluent from the stripper columns gravity flows through piping into the first aeration lagoon.

At the aeration basins, the treated waste water is mixed with air in order to oxidize any remaining organic constituents and increase the dissolved oxygen concentration available in the water for growth of bacteria and other microbial organisms. The microbes degrade most of the hydrocarbons into carbon dioxide and water. Three 15-hp mechanical aerators provide aeration in the first aeration lagoon with two 15-hp aerators providing aeration in the second lagoon. Effluent from the second aeration lagoon flows onward into the first of several evaporation ponds of various sizes.

At the evaporation ponds, waste water is converted into vapor via solar and mechanical wind-effect evaporation. No waste water is discharged from the refinery to surface waters of the state because all of the waste water evaporates. The Gallup Refinery does have a NPDES permit for storm water discharge and an OCD Discharge Permit.

The storm water system is a network of valves, gates, berms, embankments, culverts, trenches, ditches, natural arroyos, and retention ponds that collect, convey, control, treat,

and release storm water that falls within or passes through refinery property. Storm water that falls within the processing areas is considered equivalent to process waste water and is sent through the NAPIS, benzene strippers and waste water treatment system for retention in evaporation ponds. Storm water discharge from the refinery is very infrequent due to the arid desert-like nature of the surrounding geographical area. The Gallup Refinery maintains a storm water pollution prevention plan (SWPPP) that includes Best Management Practices (BMPs) for effective storm water pollution prevention. The refinery has constructed several berms in various areas and improved outfalls (installed barrier dams equipped with gate valves) to minimize the possibility of potentially impacted runoff leaving the refinery property.

1.3 Site Characteristics

Built in the 1950's, the Gallup Refinery is located within a rural and sparsely populated section of McKinley County in Jamestown, New Mexico, 17 miles east of Gallup, New Mexico. The setting is a high desert plain on the western slope of the continental divide. The surrounding land is comprised primarily of public lands and is used for cattle and sheep grazing at a density of less than six cattle or 30 sheep per section. The nearest population centers are the Pilot Travel Center (formerly Giant) refueling plaza, the Interstate 40 highway corridor, and a small cluster of residential homes located on the south side of Interstate 40 approximately 2 miles southwest of the refinery (Jamestown). Surface vegetation consists of native xerophytic vegetation including grasses, shrubs, small junipers and some prickly pear cacti. Average rainfall is less than 7 inches per year.

Local topography consists of an inclined down-slope from high ground in the southeast to a lowland fluvial plain in the northwest. The highest point on refinery property is located at the southeast corner boundary (elevation approximately 7,040 feet) and the lowest point is located at the northwest corner boundary (elevation approximately 6,860 feet). The refinery processing facility is located on a flat man-made terrace at an elevation of approximately 6,950 feet.

Surface water in this region consists of the man-made evaporation ponds and aeration basins located within the refinery, a livestock watering pond (Jon Myer's Pond) located one mile east of the refinery, two small unnamed spring fed ponds located south of the refinery, and the South Fork of the Puerco River and its tributary arroyos. The various ponds and basins typically contain water consistently throughout the year. The South Fork of the Puerco River and its tributaries are intermittent and generally contain water only during, and immediately after, the occurrence of precipitation.

The 810 acre refinery property site is located on a layered geologic formation. Surface soils generally consist of fluvial and alluvial deposits; primarily clay and silt with minor inter-bedded sand layers. Below this surface layer is the Chinle Formation, which consists of very low permeability clay stones and siltstones that comprise the shale of this formation. As such, the Chinle Formation effectively serves as an aquiclude. Inter-bedded within the Chinle Formation is the Sonsela Sandstone bed, which represents the

uppermost potential aquifer in the region. The Sonsela Sandstone bed lies within and parallels the dip of the Chinle Formation. As such, its high point is located southeast of the refinery and it slopes downward to the northwest as it passes under the refinery. Due to the confinement of the Chinle Formation aquiclude, the Sonsela Sandstone bed acts as a water-bearing reservoir and is artesian at its lower extremis. Artesian conditions exist through much of the central and western portions of the refinery property.

Ground water flow within the Chinle Formation is extremely slow and typically averages less than 10^{-10} centimeters per second (less than 0.01 feet per year). Ground water flow within the surface soil layer above the Chinle Formation is highly variable due to the presence of complex and irregular stratigraphy; including sand stringers, cobble beds, and dense clay layers. As such, hydraulic conductivity may range from 10^{-8} centimeters per second in the clay soil layers located near the surface up to 10^{-2} centimeters per second in the gravelly sands immediately overlying the Chinle Formation. Figure 4 depicts the regional surface water flows are in a westerly direction. Figure 5 depicts surface water bodies and flow lines.

Shallow ground water located under refinery property generally flows along the upper contact of the Chinle Formation. Although the prevailing flow direction is from the southeast and toward the northwest; a subsurface ridge has been identified and is thought to deflect some flow in a northeasterly direction in the vicinity of the refinery tank farm.

2.0 Scope of Activities 2010.

The annual ground water sampling event was conducted in July 2010 and the results are summarized in tables provided in Section 8 (Data Tables 8.1 thru 8.16).
Quarterly, semi-annual, annual inspections are summarized in the table below and copies of inspection sheets are available in Appendix C. The visual checks and SPH inspections are documented on the forms provided in Appendix C – Well Inspection Logs. The following table summarizes the yearly activity on the monitoring wells and sampling requirements. Other requirements per our Discharge Permit (GW-032) are as follows:

- Testing of Underground Process Waste Water lines – Appendix E
- Spill Reporting – Appendix H
- Temporary Land farm, Semi-Annual Sampling – Appendix J
- Perimeter Inspections - Appendix I
- Treatment System Monitoring – Monthly Flow Rate – Appendix K.

Table 1
2010 Monitoring Schedule
Western Refining - Gallup Refinery

Sampling Location ID	Frequency	Sample Date(s)	Inspection Date(s)	Analytical Suite	Reference Tables
Pilot Effluent	Quarterly (Q)	11-3-10, 9-20-10 9-16-10, 6-28-10 3-10-10		8260 + MTBE, 8015B, BOD, COD, WQCC Metals	Appendix K Binder 3 Section 8.1
NAPIS Effluent	Q	11-3-10, 9-13-10 6-8-10, 3-9-10		Gen Chem/8260+MTBE, 8270, 8015B, WQCC Metals	Appendix K Binder 3 Section 8.1
AL-2 to EP-1	Q	11-3-10, 9-13-10 6-8-10, 3-9-10		Major Cations/Anions, 8260+MTBE, 8270(Phenol), 8015B, WQCC Metals	Appendix K Binder 3 Section 8.1
Influent to AL-1	Q	11-3-10, 9-13-10 6-7-10, 3-9-10		8206+MTBE, BOD, COD, Chlorides, 8015B, pH, Phenol	Appendix K Binder 3 Section 8.2
Influent to AL-2	Q	11-3-10, 9-13-10 6-7-10, 3-9-10		8206+MTBE, BOD, COD, Chlorides, 8015B, pH, Phenol	Appendix K Binder 3 Section 8.2
Influent to EP-1	Q	11-3-10, 9-13-10 6-28-10, 3-10-10		Major Cations/Anions, pH, BOD, COD, Chlorides, 8260+MTBE, 8270(Phenol), 8015B, WQCC Metals	Appendix K Binder 3 Section 8.2
NAPI Secondary Containment (LDU)[1] East LDU, West LDU, Oil Sump LDU	Q	11-11-10, 9-20-10 3-18-10[3]		8021+MTBE, 8015B, WQCC Metals or check for fluids	Appendix K Binder 3 Section 8.3
RW-1	Q		11-3-10, 9-20-10 6-3-10, 3-3-10	Measure DTW, DTP	Appendix A Binder 2
RW-2	Q		11-3-10, 9-20-10 6-3-10, 3-3-10	Measure DTW, DTP	Appendix A Binder 2
RW-5	Q		11-3-10, 9-20-10 6-3-10, 3-3-10	Measure DTW, DTP	Appendix A Binder 2

Table 1
2010 Monitoring Schedule
Western Refining - Gallup Refinery

Sampling Location ID	Frequency	Sample Date(s)	Inspection Date(s)	Analytical Suite	Reference Tables
RW-6	Q		11-3-10, 9-20-10 6-3-10, 3-3-10	Measure DTW, DTP	Appendix A Binder 2
OW-1[1]	Q	11-10-10, 9-21-10 3-15-10[3]	6-3-10	Visual Check for Artesian flow conditions; Major Cations/Anions, 8260+MTBE, 8015B, WQCC Metals	Appendix K Binder 3 Section 8.4
OW-10[1]	Q	11-10-10, 9-21-10 3-15-10[3]	6-3-10	Visual Check for Artesian flow conditions; Major Cations/Anions, 8260+MTBE, 8015B, WQCC Metals	Appendix K Binder 3 Section 8.4
OW-13	Q	11-8-10, 9-22-10 6-7-10, 3-25-10		8260+MTBE	Appendix K Binder 3 Section 8.5
OW-14	Q	11-8-10, 9-22-10 6-7-10, 3-24-10		8260+MTBE	Appendix K Binder 3 Section 8.5
OW-29	Q	11-8-10, 9-22-10 6-7-10, 3-25-10		8260+MTBE	Appendix K Binder 3 Section 8.5
OW-30	Q	11-8-10, 9-27-10 6-4-10, 3-24-10		8260+MTBE	Appendix K Binder 3 Section 8.5
OW-50[2]	Q	11-9-10, 9-27-10 6-1-10, 3-16-10		8260+MTBE, 8270, WQCC Metals, 8015B, General Chemistry	Appendix K Binder 3 Section 8.6
OW-52[2]	Q	11-9-10, 9-27-10 6-1-10, 3-16-10		8260+MTBE, 8270, WQCC Metals, 8015B, General Chemistry	Appendix K Binder 3 Section 8.6
GWM-1	Q	11-2-10, 9-16-10 7-20-10, 3-3-10		Major Cations/Anions, 8260+MTBE, 8015B, WQCC Metals	Appendix K Binder 3 Section 8.7

Table 1
2010 Monitoring Schedule
Western Refining - Gallup Refinery

Sampling Location ID	Frequency	Sample Date(s)	Inspection Date(s)	Analytical Suite	Reference Tables
GWM-2	Q	10-4-10, 9-16-10	11-2-10, 10-20-10 10-12-10, 9-16-10 9-28-10, 6-3-10, 3-3-10	Check for water. If water is detected report to OCD & NMED within 24 hours. Sample for 8021+MTBE, 8015B, Major Cations/Anions.	Appendix K Binder 3 Section 8.7
GWM-3	Q	10-4-10, 9-16-10	11-2-10, 10-20-10 10-12-10, 9-16-10 9-28-10, 6-3-10, 3-3-10	Check for water. If water is detected report to OCD & NMED within 24 hours. Sample for 8021+MTBE, 8015B, Major Cations/Anions.	Appendix K Binder 3 Section 8.7
NAPIS-1	Q	11-2-10, 9-15-10 6-8-10, 3-8-10		Major Cations/Anions, 8021+MTBE, 8270, 8015B, WQCC Metals	Appendix K Binder 4 Section 8.8
NAPIS-2	Q	11-2-10, 9-15-10 6-10-10, 3-8-10		Major Cations/Anions, 8021+MTBE, 8270, 8015B, WQCC Metals	Appendix K
NAPIS-3	Q	11-2-10, 9-15-10 6-10-10, 3-8-10		Major Cations/Anions, 8021+MTBE, 8270, 8015B, WQCC Metals	Appendix K Binder 4 Section 8.8
KA-3	Q	11-2-10, 9-15-10 7-1-10, 6-10-10, 3-8-10		Major Cations/Anions, 8021+MTBE, 8270, 8015B, WQCC Metals	Appendix K Binder 4 Section 8.8
BW to EP-2	Semi-Annual (SA)	11-16-10, 6-28-10 4-20-10		Major Cations/Anions	Appendix K Binder 4 Section 8.9
Evaporation Pond 1 (EP-1)	SA	11-17-10, 11-16-10 8-2-10, 8-3-10, 4-20-10, 4-21-10		General Chemistry, 8260+MTBE, 8270, WQCC 20.6.2.3103 constituents, BOD, COD, E-Coli Bacteria, RCRA 8 Metals	Appendix K Binder 4 Section 8.10
EP-2	SA	11-17-10, 11-16-10 8-2-10, 8-3-10, 4-20-10, 4-21-10		Same as EP-1	Appendix K Binder 4 Section 8.10

Table 1
2010 Monitoring Schedule
Western Refining - Gallup Refinery

Sampling Location ID	Frequency	Sample Date(s)	Inspection Date(s)	Analytical Suite	Reference Tables
EP-3	SA	11-17-10, 11-16-10 8-2-10, 8-3-10, 4-20-10, 4-21-10		Same as EP-1	Appendix K Binder 4 Section 8.10
EP-4	SA	11-17-10, 11-16-10 8-2-10, 8-3-10, 4-20-10, 4-21-10		Same as EP-1	Appendix K Binder 4 Section 8.10
EP-5	SA	11-17-10, 11-16-10 8-2-10, 8-3-10, 4-20-10, 4-21-10		Same as EP-1	Appendix K Binder 4 Section 8.10
EP-6	SA	11-17-10, 11-16-10 8-2-10, 8-3-10, 4-20-10, 4-21-10		Same as EP-1	Appendix K Binder 4 Section 8.10
EP-7	SA	11-17-10, 11-16-10 8-2-10, 8-3-10, 4-20-10, 4-21-10		Same as EP-1	Appendix K Binder 4 Section 8.10
EP-8	SA	11-17-10, 11-16-10 8-2-10, 8-3-10, 4-20-10, 4-21-10		Same as EP-1	Appendix K Binder 4 Section 8.10
EP-9[1]	SA	11-17-10, 11-16-10 8-2-10[3], 8-3-10[3], 4-20-10[3], 4-21-10[3]		Same as EP-1	Appendix K Binder 4 Section 8.10
EP-11[1]	SA	11-17-10, 11-16-10 8-2-10[3], 8-3-10[3], 4-20-10[3], 4-21-10[3]		Same as EP-1	Appendix K Binder 4 Section 8.10

Table 1
2010 Monitoring Schedule
Western Refining - Gallup Refinery

Sampling Location ID	Frequency	Sample Date(s)	Inspection Date(s)	Analytical Suite	Reference Tables
EP-12A[1]	SA	11-17-10, 11-16-10 8-2-10[3], 8-3-10[3], 4-20-10[3], 4-21-10[3]		Same as EP-1	Appendix K Binder 4 Section 8.10
EP-12B[1]	SA	11-17-10, 11-16-10 8-2-10[3], 8-3-10[3], 4-20-10[3], 4-21-10[3]		Same as EP-1	Appendix K Binder 4 Section 8.10
BW-1A	Annual (A)		7-14-2010 Not enough water to sample	Major Cations/Anions, 8260+MTBE, 8270, WQCC Metals	Appendix K Binder 4 Section 8.10
BW-1B	A		7-14-2010 Not enough water to sample	Major Cations/Anions, 8260+MTBE, 8270, WQCC Metals	Appendix K Binder 4 Section 8.11
BW-1C	A	7-20-10, 7-15-10	7-14-10	Major Cations/Anions, 8260+MTBE, 8270, WQCC Metals	Appendix K Binder 4 Section 8.11
BW-2A	A	7-20-10, 7-15-10	7-14-10	Major Cations/Anions, 8260+MTBE, 8270, WQCC Metals	Appendix K Binder 4 Section 8.11
BW-2B	A	7-20-10, 7-15-10	7-14-10	Major Cations/Anions, 8260+MTBE, 8270, WQCC Metals	Appendix K Binder 4 Section 8.11
BW-2C	A	7-20-10, 7-15-10	7-14-10	Major Cations/Anions, 8260+MTBE, 8270, WQCC Metals	Appendix K Binder 4 Section 8.11
BW-3A	A		7-20-10 Not enough water to sample	Major Cations/Anions, 8260+MTBE, 8270, WQCC Metals	Appendix K Binder 4 Section 8.11
BW-3B	A	7-20-10, 7-15-10	7-14-10	Major Cations/Anions, 8260+MTBE, 8270, WQCC Metals	Appendix K Binder 4 Section 8.11

Table 1
2010 Monitoring Schedule
Western Refining - Gallup Refinery

Sampling Location ID	Frequency	Sample Date(s)	Inspection Date(s)	Analytical Suite	Reference Tables
BW-3C	A	7-20-10, 7-15-10	7/14/2010	Major Cations/Anions, 8260+MTBE, 8270, WQCC Metals	Appendix K Binder 4 Section 8.11
EP-2 Inlet	A	7-21-10		8260+MTBE, 8015B, BOD, COD, TDS	Appendix K Binder 4 Section 8.12
MW-1	A	7-16-10, 3-1-10		Major Cations/Anions, 8260+MTBE, 8215B, WQCC Metals	Appendix K Binder 4 Section 8.12
MW-2	A	3-1-10		Per RCRA Skinner List	Appendix K Binder 4 Section 8.12
MW-4	A	7-19-10, 3-2-10		Major Cations/Anions, 8260+MTBE, 8215B, WQCC Metals	Appendix K Binder 4 Section 8.12
MW-5	A	7-19-10, 3-1-10		Major Cations/Anions, 8260+MTBE, 8215B, WQCC Metals	Appendix K Binder 4 Section 8.12
OW-11	A	7-28-10		Major Cations/Anions, 8260+MTBE, 8270, WQCC Metals	Appendix K Binder 4 Section 8.14
OW-12	A	7-22-10		8260+MTBE	Appendix K Binder 4 Section 8.14
SMW-2	A	7-16-10		Major Cations/Anions, 8260+MTBE, 8215B, WQCC Metals	Appendix K Binder 4 Section 8.15
SMW-4	A	7-16-10, 3-1-10		Major Cations/Anions, 8260+MTBE, 8215B, WQCC Metals	Appendix K Binder 4 Section 8.15

Table 1
2010 Monitoring Schedule
Western Refining - Gallup Refinery

Sampling Location ID	Frequency	Sample Date(s)	Inspection Date(s)	Analytical Suite	Reference Tables
PW-2	Every 3 years. Start 2008	9-12-08		8260+MTBE, 8270, WQCC Metals, Cyanide, Nitrates	Appendix K Binder 4 Section 8.16
PW-3	Annual starting with 2009	11-1-10, 9-23-10		8260+MTBE, 8270, WQCC Metals, Cyanide, Nitrates	Appendix K Binder 4 Section 8.16
PW-4	Every 3 years. Start 2007	7-28-10		8260+MTBE, 8270, WQCC Metals, Cyanide, Nitrates	Appendix K Binder 4 Section 8.16

NOTES:

1. Location sites added to Approved with Modifications Facility Wide Ground Water Monitoring Work Plan

2. OW-50 and OW-52: New wells installed in October 5, 2009. Analytical suite is per NMED correspondence dated June 4, 2010 "Approved with Modifications".

[3] Used unapproved ground water monitoring schedule which called for quarterly sampling.

7/15/10 samples shipped via Federal Express Overnight and samples were lost. Federal Express was unable to locate coolers

MW-1, 4, 5, SWM-2, 4 - March 1, 2010 sampling event was for the 10 year RCRA Post Closure Permit requirements

In addition to ground water monitoring, surface water monitoring is also conducted as follows

- Collect effluent samples from Benzene Strippers 1 and 2 located by the aeration lagoons and Benzene Stripper 3 located by the crude desalter for 8021B+ MTBE analysis. Collection started on a weekly basis from January to August 2010 and modified to a monthly basis in September of 2010.
- Collect effluent sample from the new API separator and an influent sample from Benzene Stripper 3 on a monthly basis for 8021B + MTBE analysis.
- Provide monthly flow rate readings in gallons per minute (gpm) to Benzene Strippers 1 and 2 (flow leaving the new API separator (NAPI).
- Submit estimates of effluent flow from the Benzene Stripper 3.
- Submit all sampling and monitoring data on a monthly basis due on the thirtieth day of the following month.

2.1 Monitoring and Sampling Program

The primary objective of ground water monitoring is to provide data which will be used to assess ground water quality at and near the refinery. Ground water elevation data are collected to evaluate ground water flow conditions. The ground water monitoring program for the refinery consists of sample collection and analysis from a series of monitoring, recovery, boundary, process and shallow monitoring wells, including outfalls, evaporation pond locations and surface water monitoring of effluents from the new API separator to the Benzene Strippers 1, 2 and Benzene Stripper 3 at the crude desalter.

The monitoring network is divided into two investigation areas (East Side and West Side). The sampling frequency, analyses and target analytes vary for each investigation area and well/outfall/evaporation pond location. The combined data from these investigation areas is used to assess ground water quality beneath and immediately down-gradient of the refinery, and evaluate local ground water flow conditions. Samples are not collected from monitoring wells that have measurable SPH on a regular basis. For wells that are purged dry, samples are collected if recharge volume is sufficient for sample collection within 24 hours. Wells not sampled due to insufficient recharge will be documented in the field log.

Daily field activities, including observations and field procedures, will be recorded for each activity and maintained at the Gallup Refinery. Field logs will include the following information

- Well ID/ Evaporation pond location/ Outfall

- Date
- Start and finish sampling time
- Field team members, including visitors
- Weather conditions
- Daily activities and times conducted
- Observations
- Record of samples collected with sample designations
- Photo log (if needed)
- Field monitoring data, including health and safety monitoring (if needed)
- Equipment used and calibration records, if appropriate
- List of additional data sheets and maps completed
- An inventory of the waste generated and the method of storage or disposal
- Signature of personnel completing the field record

All samples collected for analysis will be recorded in the field report or data sheets. Chain-of-custody forms will be completed at the end of each sampling day, prior to the transfer of samples off site, and will accompany the samples during shipment to the laboratory. A custody seal will be affixed to the lid of the shipping container. Copies of all chain-of-custody forms generated are kept on site.

Field duplicates and trip blanks may be obtained for quality assurance during sampling activities.

2.2 Sampling Methods and Procedures

Each monitoring well is gauged for depth to water measurement to determine the amount of water to purge. A minimum of two well volumes are purged from each well prior to sampling. If water level is at a minimum or the well has low recharge rate, then the well is allowed to recharge within 24 hours before sample is collected. A pump is lowered slowly into the well to minimize disturbance to a depth of the midpoint of the screened interval of the well. The pump controller is started at a slow rate and gradually increased until water is discharged. Field water quality measurements must stabilize for a minimum of three consecutive readings taken at 2 to 5 minute intervals and are within the following limits before purging will be discontinued and sampling may begin: DO-Dissolved Oxygen (10%), Specific Conductance (3%), Temperature (3%), pH (+/- 10 mill volts).

Ground water samples are obtained from each well within 24 hours of the completion of well purging. The samples are transferred to the appropriate, clean, laboratory-prepared containers provided by the analytical laboratory. Sample collection methods are documented in the field monitoring reports. Weather conditions, the volume of ground water purged, the instruments used, and the readings obtained at each interval are recorded on the field-monitoring log.

Well purging and sampling are performed using disposable bailers and/or appropriate sampling pumps where applicable and some of the wells have dedicated pumps installed

where a controller is used to power the submersible pump to purge water. In shallow wells, new disposable bailers are used for each well to hand bail purge water and retrieve water samples.

All purged ground water from monitoring wells is collected in a 55 gallon drum(s) and disposed off in the refinery waste water treatment system upstream of the API Separator.

Ground water samples intended for metals analysis are submitted to the laboratory as total and dissolved metals samples.

At a minimum, the following procedures are used when collecting/shipping samples.

- Protective eye wear (safety glasses, goggles and or face shield)
- Neoprene, nitrile, or other protective gloves are worn when collecting samples. New disposable gloves are used to collect sample at each sample point.
- All samples collected for chemical analysis are transferred into clean sample containers supplied by the analytical laboratory. The sample container is clearly marked and labeled.
- Ground water samples obtained for dissolved metals analysis are filtered through a 0.45 micrometer mesh size disposable filter.
- Samples are labeled, sealed, placed in cooler with ice until they are shipped via UPS RED, FED EX Overnight or personally delivered to the analytical laboratory.
- Standard chain-of-custody procedures are followed for all samples collected.
- The chain-of-custody form and sample request form are shipped inside the sealed storage container to be delivered to the laboratory, signed and dated.
- Field duplicates and trip blanks may be obtained for quality assurance during sampling activities. Trip blanks will accompany laboratory sample bottles and shipping and storage containers intended for VOC analyses. Trip blanks will consist of a sample of analyte free de-ionized water placed in an appropriate sample container. Trip blanks will be analyzed at a frequency of one for each shipping event involving twenty or more samples.

In order to prevent cross-contamination, field equipment that comes into contact with water or soil is cleansed before each sampling event. The cleansing procedure for the portable pump consists of rinsing/washing the equipment with an Alconox detergent

water mixture followed by two rinses before use in another well. Any equipment such as data loggers or tape measure that comes in contact with each well is washed with an Alconox water mixture and rinsed with distilled water before each use.

2.2.1 Equipment

A submersible bladder pump 2 inch. 115 volt AC to DC converter, Grundfos Redi-flo2 constructed of stainless steel with check valve and 1/2 inch Teflon tubing, adjustable rate controller powered by a gas generator is used to purge ground water from monitoring wells. Equipment is located downwind and at least 20 feet from the well so that exhaust fumes do not cross contaminate the samples.

Water level Instrument used is a Heron Instrument 100 feet DipperT electric water depth tape complying with US GGG-T-106E, EEC, Class II. This instrument measures water level, indication is a steady audible tone and hydrocarbons indications is an erratic audible tone.

Parameter Instrument – YSI Model 556 MPS Multi Probe System which simultaneously measures dissolved oxygen, conductivity, temperature, and optional pH and ORP. As a back up we also have an IQ Scientific Instrument, Model IQ180GLP which measures pH, dissolved oxygen, TDS, Conductivity, salinity, ISE, mV and temperature.

Disposable Bailers – Polyethylene bailer (1.5" X 36 inches overall length; capacity approximately 1 liter). Individually sealed packaging, single check valve bailer with slide in angle cut nozzle for sample removal. A new bailer is used for each well that requires hand bailing for purging and sample retrieval.

Field equipment parameter instruments are calibrated to known standards, in accordance with the manufacturers' recommended schedules and procedures. Calibration checks are conducted before use and the instruments recalibrated if necessary. Calibration of equipment is noted in the daily field logs.

If field equipment becomes inoperable, a properly calibrated replacement instrument is used in the interim. Instrumentation used during a sampling event is recorded in the daily field logs.

2.3 Collection and Management of Investigation Derived Waste

Investigation derived waste (IDW) generated during each ground water sampling event may include purge water, decontamination water, excess sample material, and disposable sampling equipment. All water purged from monitoring wells generated during sampling and decontamination activities is temporarily stored in a labeled 55-gallon drum(s) until disposed of in the refinery waste water treatment system upstream of the API separator.

2.4 Collection of Surface Water Samples

At the evaporation ponds, samples are collected near the inlets, and are a grab sample at the pond edge near the inlet. This location is noted in the field notebooks. For outfalls, a grab sample is collected at the pipe end, and recorded.

2.5 Analytical Methods

Ground water and surface water samples collected during the monitoring events are analyzed for the constituents listed in Section 2.0. In addition, for various locations the list of metals is modified to use the Skinner list of the NM Water Quality Control Commission list.

2.6 Perimeter Search

Western Refining conducts a perimeter search of the refinery property on a bi-monthly basis starting in December 2004. The inspection focuses on hydrocarbon staining or any release that could result in material leaving the property boundary. Western Refining has prepared an inspection checklist to be completed and signed by the environmental employee conducting the inspection. See Appendix I for copies of the inspection records.

2.7 Remediation Activities

Separated Phase Hydrocarbons (SPHs) have been found in wells RW-1, RW-5 and RW-6. In the past these were recovered either through the use of a submersible bladder pump, or hand-bailing using a disposable 3 foot polyethylene bailer. Appendix A provides details of the volumes of product recovered and the dates and the depths to water and SPH that we have measured in these wells. In 2010, this volume is approximately 0.66 gallons from RW-1. In the past, product was also recovered from RW-5 and RW-6. RW-5 has shown a steady decrease of SPH. Beginning in the second quarter of 2009 through 2010, RW-5 has had no indication of a SPH thickness level in this recovery well. RW-6 continues to show a decline in SPH levels from a level of 0.16 feet in the first quarter of 2009 to a level of 0.09 feet in second quarter of 2010. SPH thickness level for the year in RW-6 averages 0.23 feet for 2010 and product recovery is 0.15 gallons

In RW-1 a bladder pump is used to pump out SPH on a quarterly basis into a labeled 55 gallon drum. Visible layer of product on the top is then measured with a tape measure and calculated as best as possible for volume of product recovered. In RW-5 and RW-6, a 3 foot disposable hand bailer is used to extract product from the wells. Bailed water is collected in a 5 gallon bucket and the visible layer of floating product is then measured as best as possible for volume. The purged water is then disposed of in the refinery waste water treatment system upstream of the API separator.

Total estimated volume recovered from RW-1 for 2010 is 0.66 gallons.

3.0 Ground Water Elevation Surveys.

Ground water elevation data are collected from the wells listed in Sections 2.0. Figure 6 shows the locations of all the active wells. Section 9 contains the data gathered for 2010. As directed by NMED HWB, ground water elevation data are collected on a quarterly or an annual basis. Ground water levels and SPH thickness measurements (from the RW series of wells) are collected quarterly to monitor ground water elevation and product thickness fluctuations over time.

Measurement data and the date and time of each measurement are recorded on a site monitoring data sheet. The depth to ground water and SPH thickness levels are measured to the nearest 0.01 ft. The depth to ground water and SPH thickness are recorded relative to the surveyed well casing rim or other surveyed datum. A corrected water table elevation is provided in wells containing SPH by adding 0.8 times the measured SPH thickness to the measured water table elevation.

All water/product levels are measured to an accuracy of the nearest 0.01 foot using an electrical conductivity based meter, the Heron Instruments 100 ft. DipperT electric water depth tape complying with US GGG-T-106E, EEC Class II. After determining the water level the well volume is calculated using the height of the liquid column and the internal cross sectional area of the well. The purge volume is a minimum of two times the well volume.

Ground water and SPH levels are measured in all wells within 48 hours of the start of ground water sampling activities. All manual extraction of SPH and water from recovery wells, observation wells, and collection wells is discontinued for 48 hours prior to the measurement of water and SPH levels.

3.0 Ground Water Elevation Surveys.

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Measurement data and the date and time of each measurement are recorded on a site monitoring data sheet. The depth to ground water and SPH thickness levels are measured to the nearest 0.01 ft. The depth to ground water and SPH thickness are recorded relative to the surveyed well casing rim or other surveyed datum. A corrected water table elevation is provided in wells containing SPH by adding 0.8 times the measured SPH thickness to the measured water table elevation.

All water/product levels are measured to an accuracy of the nearest 0.01 foot using an electrical conductivity based meter, the Heron Instruments 100 ft. DipperT electric water depth tape complying with US GGG-T-106E, EEC Class II. After determining the water level the well volume is calculated using the height of the liquid column and the internal cross sectional area of the well. The purge volume is a minimum of two times the well volume.

Ground water and SPH levels are measured in all wells within 48 hours of the start of ground water sampling activities. All manual extraction of SPH and water from recovery wells, observation wells, and collection wells is discontinued for 48 hours prior to the measurement of water and SPH levels.

4.0 Regulatory Criteria

We compare our data to the following most recent regulatory standards (Appendix B) at time of submission of report.

- New Mexico WQCC 20NMAC 20.6.2.3103. Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
- EPA 40 CFR 141.62. National Primary Drinking Water Regulations (Updated May 2009) MCL.
- EPA Regional Screening Levels set for Residential Risk-Based Screening Levels for Tap Water (Ross).
- NMED total petroleum hydrocarbon (TPH) screening guidelines for Potable Ground water (GW-1), Table 2a. (October 2006).

5.0 Ground water Elevations and Separate-Phase Hydrocarbons

5.1 Potentiometric Map

Figure 8 presents a Potentiometric Elevation Map showing ground water elevations in some of the Chinle/alluvium wells and contours and Section 10 provides ground water elevation data gathered during 2010.

6.0 Ground water Monitoring Results

Section 8 contains the Ground Water Data Tables for 2010. Only constituents above levels of detection are generally described. Bold and highlighted values indicate that a constituent exceeds one or more of the standards listed. Appendix L (Binder 2) contains the laboratory analytical data reports. As Part of our Ground Water Permit (GW-32), additional reporting is required on an annual basis and is provided in this report. This reporting includes:

- Monitoring of the aeration lagoons, ponds and outfalls between the lagoons and ponds on a quarterly, semi-annual and annual basis. (See Section 8)
- Summary of Waste Water Treated and Water Balance (See Appendix D)
- Summary of Underground Waste Water Lines Tested (See Appendix E)
- Summary of All EPA/NMED/RCRA Activity (See Appendix F)
- Major Refinery Activities and Events (See Appendix G)
- Summary of All Leaks, Spills and Releases (See Appendix H)
- Perimeter Inspections (See Appendix I)
- Temporary Land Farm Monitoring (See Appendix J)
- Monthly Flow Rate to NAPIS (See Appendix K)

6.1 Monitoring Wells That Have Constituent Levels Above Standards.

BW-1C, 2B, 2C, 3B, 3C

The boundary wells (BW) are sampled on an annual basis. Ground water samples were analyzed for the following constituents: Major cations/anions, 8260 plus MTBE, 8270 plus phenol and WQCC Metals. The boundary wells were sampled on the following dates:

- BW-1C: 7/15/10, 7/20/10 re-sampled
- BW-2B: 7/15/10, 7/20/10 re-sampled
- BW-2C: 7/15/10, 7/20/10 re-sampled
- BW-3B: 7/15/10, 7/20/10 re-sampled
- BW-3C: 7/15/10, 7/20/10 re-sampled

The above listed boundary wells were originally sampled on 7/15/2010 packaged and sent via Federal Express for overnight delivery. Samples did not arrive at the laboratory

as scheduled the next day and shipments were tracked. Federal Express was unable to locate the samples and Western had to re-sample on July 20, 2010.

Fluoride was detected in BW-1C during the annual inspection at 2.7 ppm which is above the WQCC standard of 1.6 ppm. BW-2B fluoride level was also above the WQCC standard at 1.8 ppm and BW-2C level was at 2.1 ppm. BW-2B dissolved metals also had readings of 0.22 ppm for manganese which is above the WQCC standard of 0.2 ppm and selenium was also detected at 1.2 ppm which is above the WQCC and EPA MCL standards at 0.05 ppm. In BW-3B, bis(2-ethylhexyl)phthalate was also detected at 0.01 ppm above the EPA RSL standard of 0.0048 ppm.

GWM-1

Ground water samples are collected on a quarterly basis beginning with the fourth quarter of 2010 per approved Facility Wide Ground Water Monitoring Plan dated August 25, 2010. Previously, this well was on an annual sampling schedule. Ground water samples were analyzed for the following parameters: Major cations/anions, 8260 plus MTBE, 8015B and WQCC Metals. Quarterly water level measurement inspections and sampling were completed on the following dates:

- GWM-1: 11-2-10, 9-16-10, 7-20-10 and 3-3-10.
- Annual samples collected in July 2010.

BTEX constituents analyzed in this well are as follows: Benzene averaged 0.0086 ppm for 2010, with first quarter recording the highest level of 0.012 ppm above the EPA RSL standard of 4.1E-04 ppm, the EPA MCL standard of 0.005 ppm, and the NMWQS of 0.01 ppm. 2006 through 2010 trend is shown in Table 2 below.

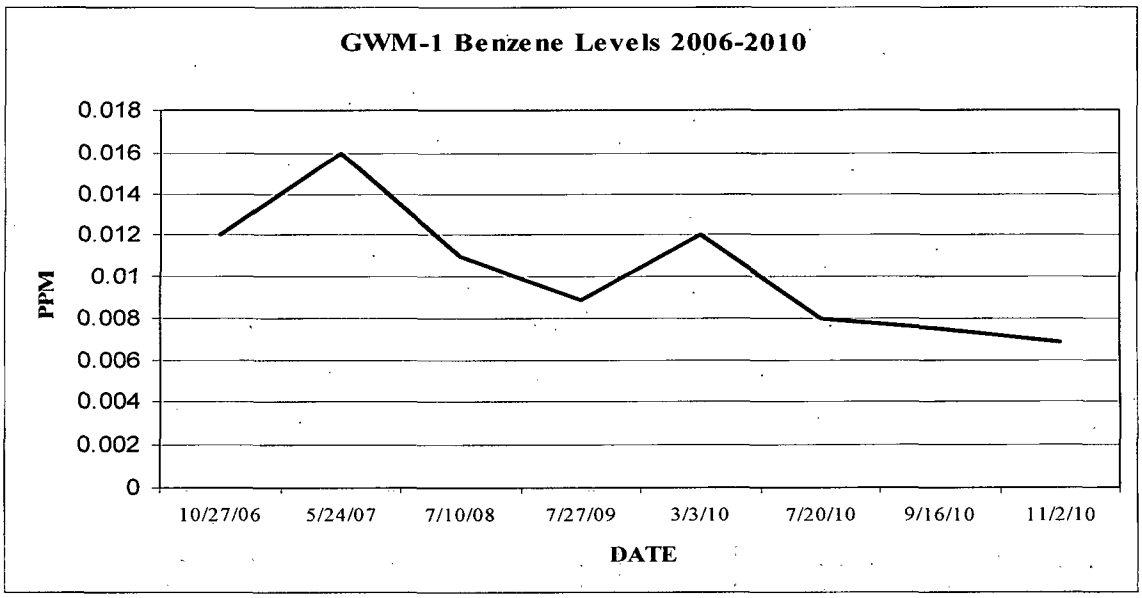

Table 2: GWM-1 Benzene levels for 2006 through 2010.

Data gathered for MTBE levels in this well averaged 0.0675 ppm for 2010 with the first quarter having the highest detection level of 0.078 ppm. All four quarters were above the EPA RSL standard of 0.012 ppm. Ethyl benzene also showed levels above the EPA RSL standard of 0.0015 ppm but did not exceed the WQCC or the EPA MCL standards. See Table 3 for MTBE trend.

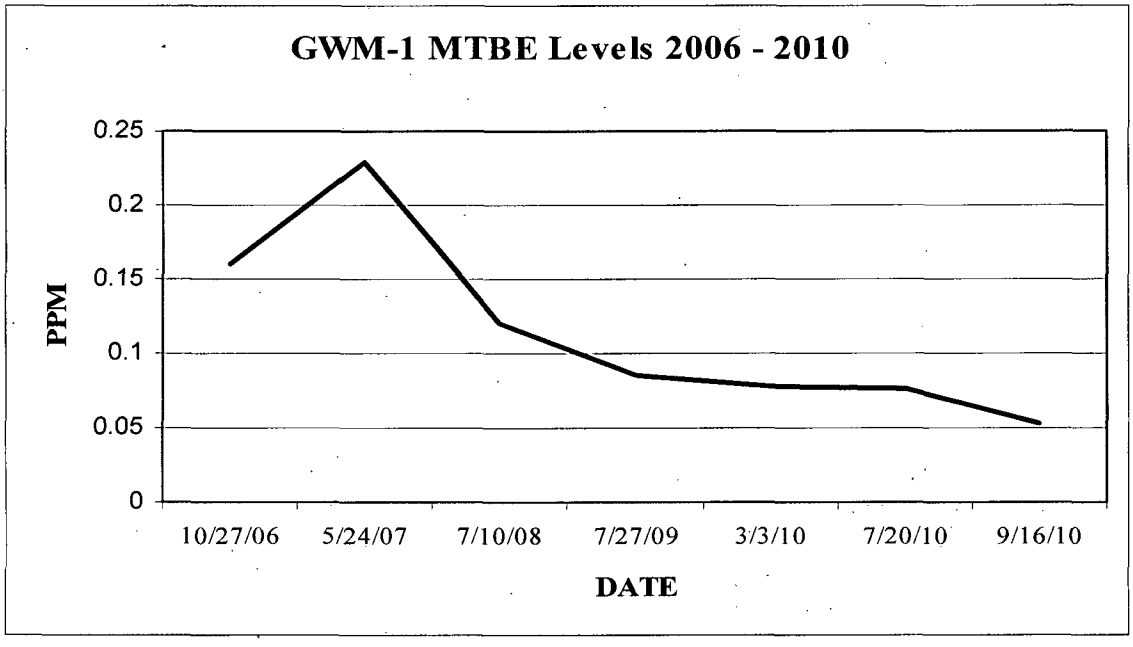

Table 3: GWM-1 MTBE levels for 2006 through 2010.

Volatile analytical results are as follows for 2010: 1, 2, 4-trimethylbenzene detection levels averaged 0.010 ppm below the EPA RSL standard; 1,3,5-trimethylbenzene analysis indicated a reading of 0.0019 in the third quarter which is below the EPA RSL standard of 0.37 ppm. 1-methylnaphthalene was detected in the annual sampling at 0.011 ppm which is above the EPA RSL standard of 0.0023 ppm. Naphthalene was detected at 0.0035 ppm which is above the EPA RSL standard of 0.0024 ppm and below the WQCC standard of 0.025 ppm. Fluoride and chloride levels were above the WQCC standards for all four quarters in 2010 averaging 2.85 ppm for fluoride and 1450 ppm for chloride. Diesel Range Organics (DRO) was also detected in first quarter at 3.9 ppm up to 7.7 ppm in the third quarter. Total metals analysis indicated detection levels greater than the WQCC and EPA MCL standards for arsenic ranging from 0.098 ppm first quarter to 0.16 ppm in the second quarter and back down to 0.12 ppm in the third quarter. Barium averaged 0.97 ppm for 2010, iron ranged from 15 ppm to 20 ppm first and second quarter and non-detect in the fourth quarter. See Table 6 and 7 for chloride and arsenic concentration trend levels.

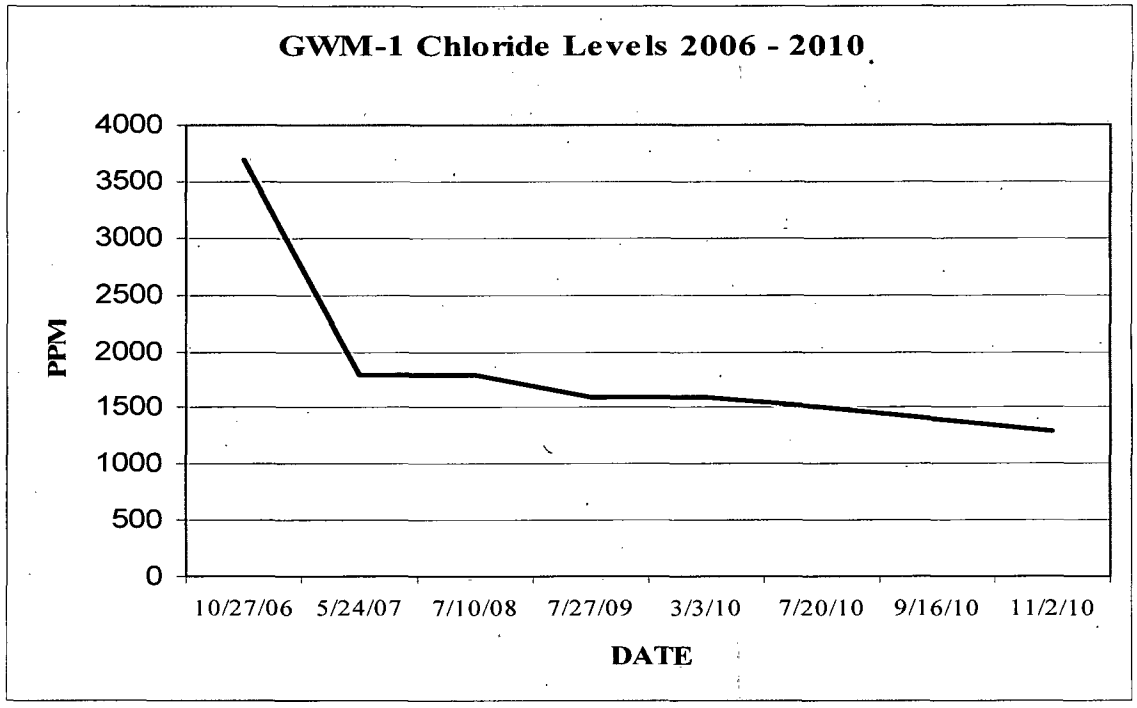

Table 4: GWM-1 Chloride for 2006 through 2010.

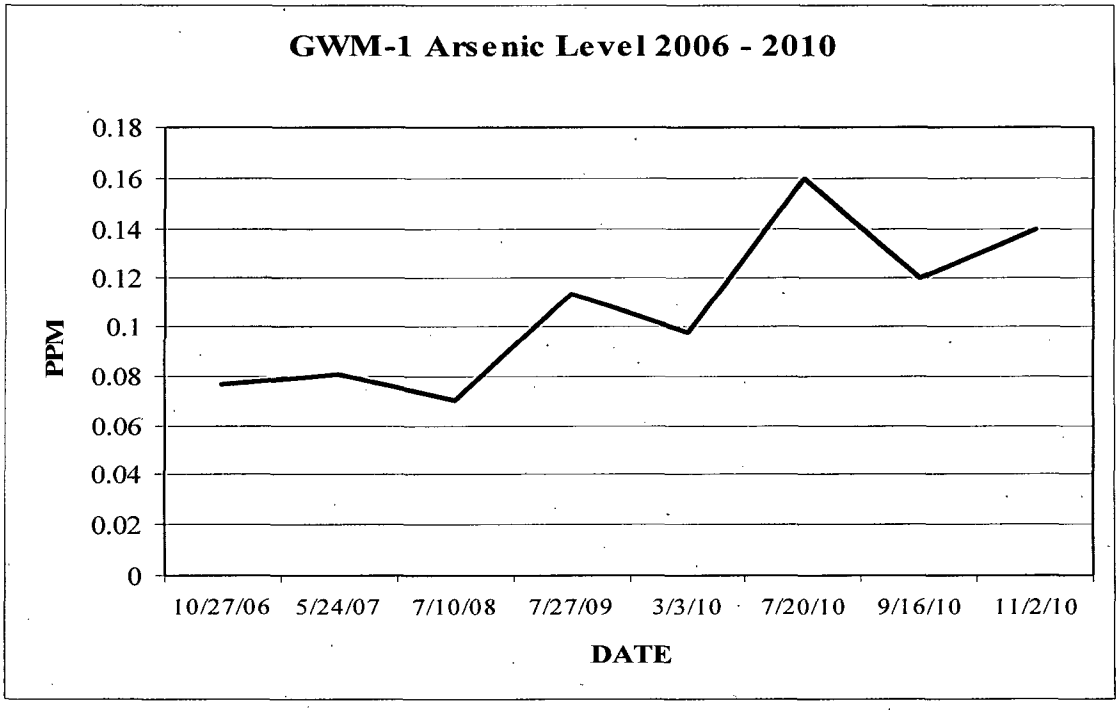

Table 5: GWM-1 Arsenic levels for 2006 through 2010.

GWM-2, GWM-3

GWM-2 and GWM-3 are inspected on a quarterly basis and these wells are considered dry wells since its installation in 2005. Water was detected in GWM-2 in 2008 in the first quarter. Notification was given to NMED and OCD respectively. In 2010 during the second quarter inspection, GWM-2 and GWM-3 were found to have a water level of 1.5 feet in GWM-1 and 0.88 feet in GWM-3. Notification was given to NMED and OCD within 24 hours of finding. Weekly inspections were done to monitor recharge rate. Ground water samples were collected in September and October for the following analysis. 8021B + MTBE, GRO/DRO extended, and major cations/anions. Inspections and sampling were performed on the following dates.

- GWM-2: 10/4/10, 9/16/10 - Sampled
- Inspections: 11/2/10, 10/20/10, 10/12/10, 9/28/10, 9/16/10, 6/3/10, 3/3/10
- GWM-3: 10/4/10, 9/16/10 - Sampled
- Inspections: 11/2/10, 10/20/10, 10/12/10, 9/28/10, 9/16/10, 6/3/10, 3/3/10

BTEX analysis for both wells was at non-detectable levels. MTBE was detected in GWM-2 at a level of 0.011 ppm which is below the EPA RSL standard of 0.012 ppm. GWM-3 had an MTBE detectable level of 0.009 ppm in the third quarter and a level of 0.0092 ppm in the fourth quarter. Method 8260 analysis indicated non-detectable levels in both GWM-2 and GWM-3 wells. However, fluoride and chloride levels were detected in both wells. Sulfate was also detected at levels above the WQCC standard of 600 ppm. The DRO analysis for GWM-3 indicated a detectable level in the third and fourth quarter at 3.7 ppm and 1.3 ppm which are above the 0.2 ppm NMED Table 2a, TPH Screening Guidelines for Potable Ground Water.

MW-1, MW-2, MW-4, MW-5

The monitoring wells (MW) are sampled on an annual basis. Ground water samples are analyzed for the following constituents: Major cations/anions, 8260 plus MTBE and WQCC Metals and MW-2 was sampled as part of the 10 year RCRA Post Closure event per skinner lists. The monitoring wells were inspected and sampled on the following dates:

- MW-1: 7-16-10
- MW-2: 3-1-10
- MW-4: 7-19-10
- MW-5: 7-19-10

BTEX indicated non detectable levels in all four MW wells. General chemistry parameters also indicated levels below applicable standards. DRO/GRO were also at non-detectable standards. Diethyl phthalate was detected in MW-1 at a level of 0.00103 ppm below the EPA RSL of 29 ppm.

NAPIS-1, NAPIS-2, NAPIS-3, KA-3

NAPIS well are sampled on a quarterly basis. Ground water samples were analyzed for the following constituents: Major cations/anions, 8260 + MTBE, 8270 + phenol, 8015B, and WQCC Metals. NAPIS Wells were sampled on the following dates:

- NAPIS-1: 11/2/10, 9/15/10, 6/8/10, 3/8/10
- NAPIS-2: 11/2/10, 9/15/10, 6/10/10, 3/8/10
- NAPIS-3; 11/2/10, 9/15/10, 6/10/10, 3/8/10
- KA-3: 11/2/10, 9/15/10, 6/10/10, 3/8/10

These shallow wells are located around the NAPIS. NAPIS-1 is an up gradient well on the southeast side of the NAPIS. NAPIS-2 is located immediately down gradient on the southwest side of the NAPIS at ground level. KA-3 and NAPIS-3 are located on the west side at the north end and are situated at ground level.

BTEX results indicated benzene was detected in NAPIS-2 above the EPA RSL standard of 4.1E-04 ppm and above the EPA MCL standard of 0.005 ppm and the NMWQ standard of 0.01 ppm. Benzene averaged 0.263 ppm for 2010 and first quarter showing the highest reading of 0.83 ppm (Table 6).

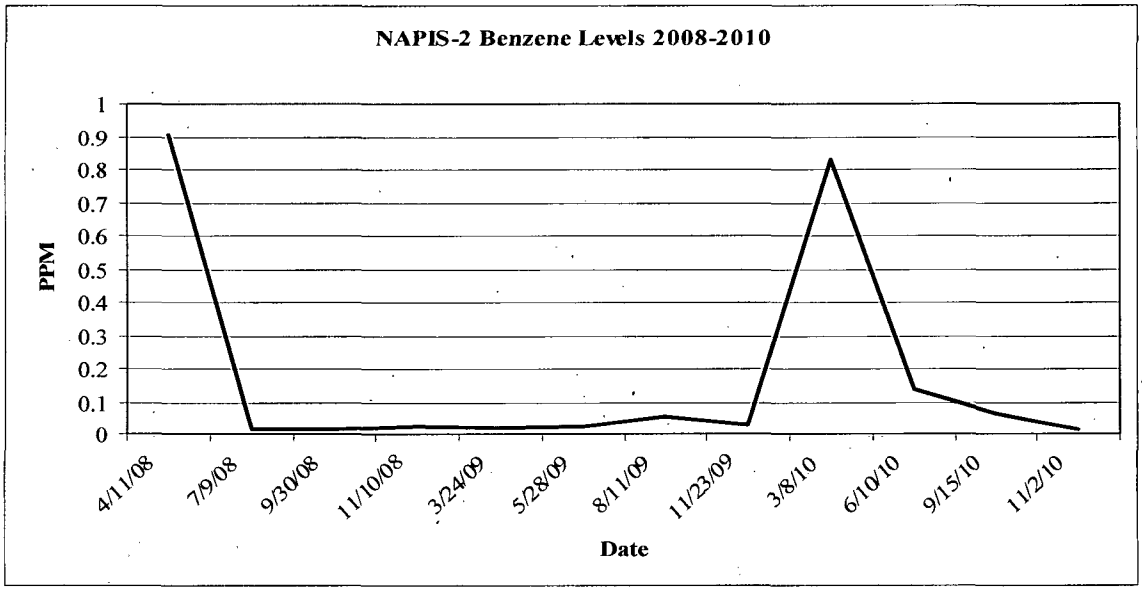

Table 6: NAPIS-2 Benzene Levels for 2008 through 2010.

Ethyl benzene levels in NAPIS-2 averaged 0.008 ppm for 2010. First quarter detectable level of 0.016 ppm was above the EPA RSL standard of 0.0015 ppm. See Table 7 for trend of ethyl benzene.

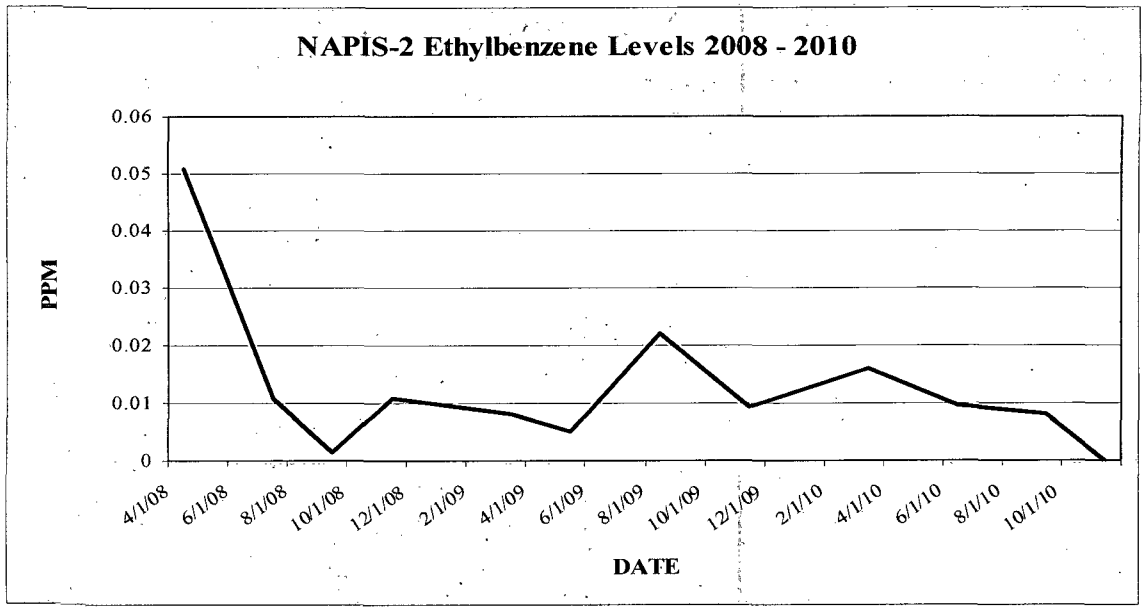

Table 7: NAPIS-2. Ethyl Benzene Levels for 2008 through 2010.

MTBE levels in NAPIS 2 averaged 0.245 ppm above the EPA RSL standard of 0.012 ppm for 2010. The highest detectable amount was recorded in the fourth quarter at 0.27 ppm. There was an increase of MTBE from November 2009 to March 2010 as shown in Table 8. No MTBE data available for September 2008.

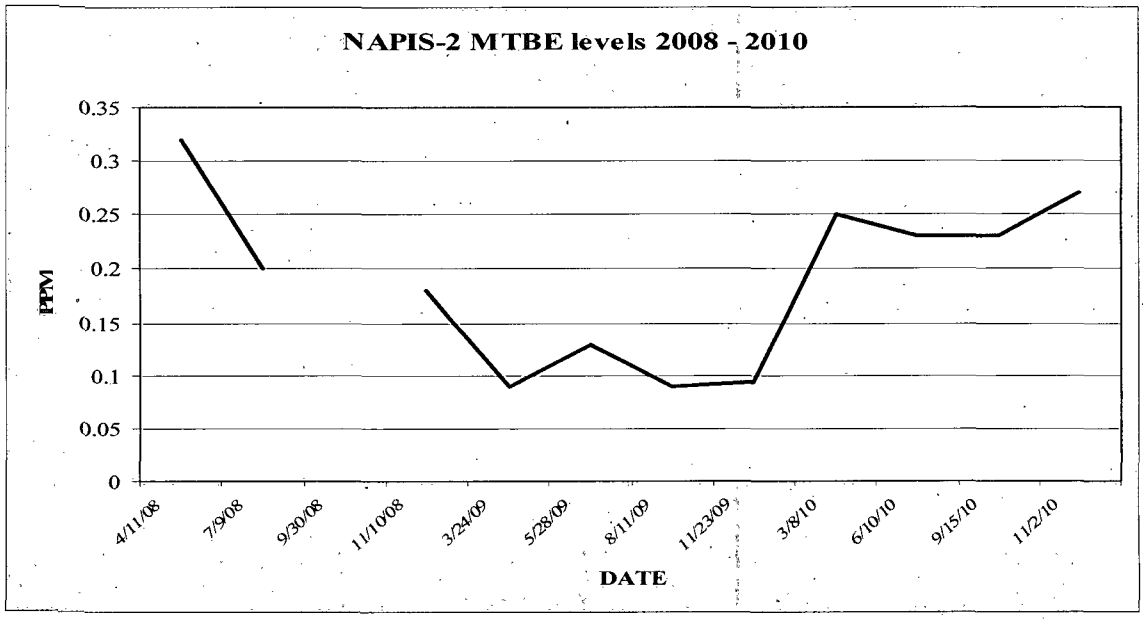

Table 8: NAPIS-2 MTBE Levels for 2008 through 2010.

NAPIS-2 method 8015B analysis indicated the following results: DRO showed levels ranging from 3.8 ppm first quarter and 5.1 ppm fourth quarter exceeding the 0.2 NMED Table 2a, TPH Screening Guidelines for Potable Ground Water (GW-1) (October 2006).

GRO also showed levels ranging from 1.0 ppm first quarter to 0.57 ppm fourth quarter (Table 9).

NAPIS-3 also ha detectable levels of benzene in the first and second quarter at levels of 0.072 ppm in the first quarter up to 0.2 ppm in the third quarter. MTBE was also detected in the second quarter at 0.08 pm which is above the EPA RSL standard of 0.012 ppm.

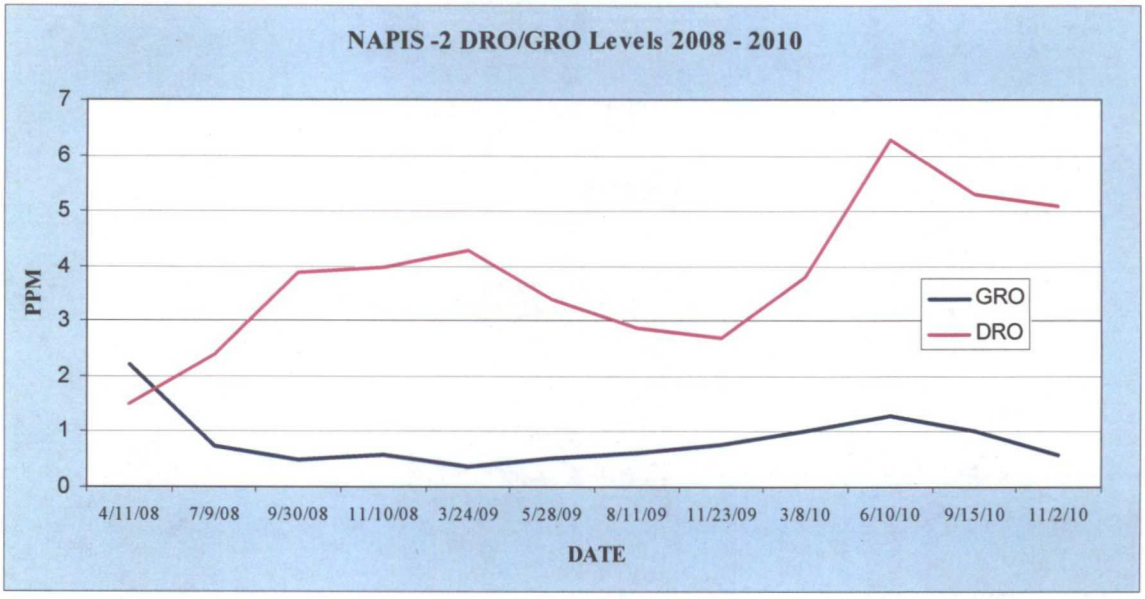

Table 9: NAPIS-2 DRO/GRO Levels for 2008 through 2010.

In KA-3, benzene averaged 0.255 ppm for 2010 and the highest reading was detected in the third quarter at 0.52 ppm. KA-3 average for 2010 for ethyl benzene was 0.0145 ppm which is above the EPA RSL standard of 0.0015 ppm. High reading was recorded in the third quarter of 2010 at 0.031 ppm. KA-3 MTBE levels were all above the EPA RSL standard of 0.012 ppm ranging from 0.08 ppm second quarter to a high of 0.11 ppm in the third quarter (Table 10). First quarter MTBE constituent was not listed when method 8021B analysis was run.

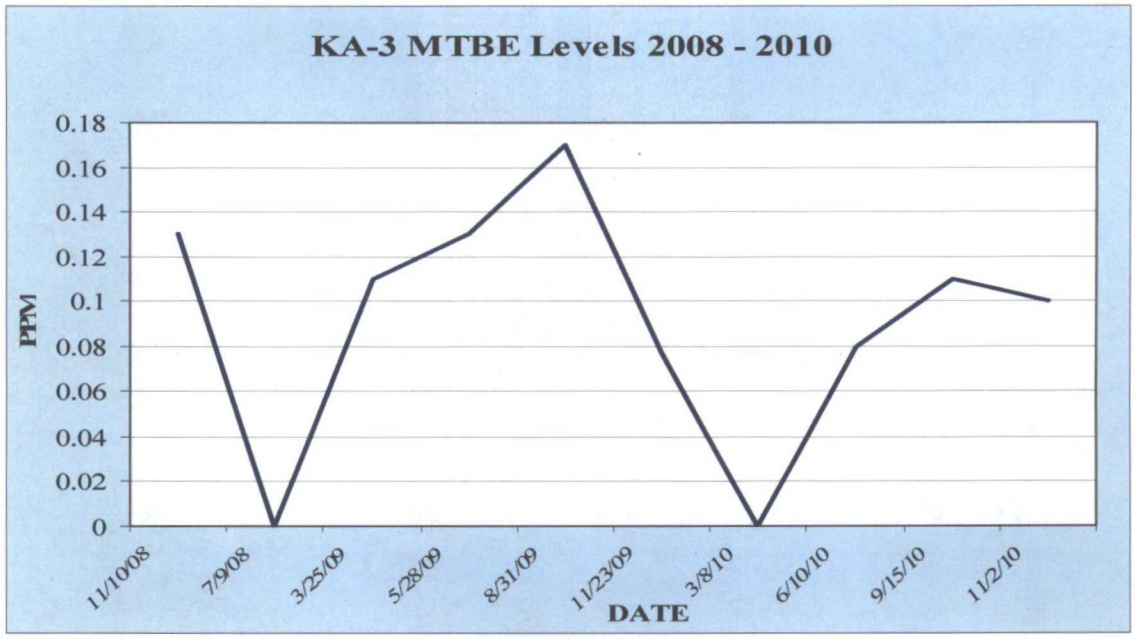

Table 10: KA-3 MTBE Levels for 2008 through 2010.

Method 8015B analysis for KA-3 indicated the following results: DRO showed levels ranging from <1.0 ppm first quarter and 1.7 ppm fourth quarter exceeding the 0.2 NMED Table 2a, TPH Screening Guidelines for Potable Ground Water (GW-1) (October 2006). GRO also showed levels ranging from 0.47 ppm first quarter to a high of 1.9 ppm in the third quarter (Table 11).

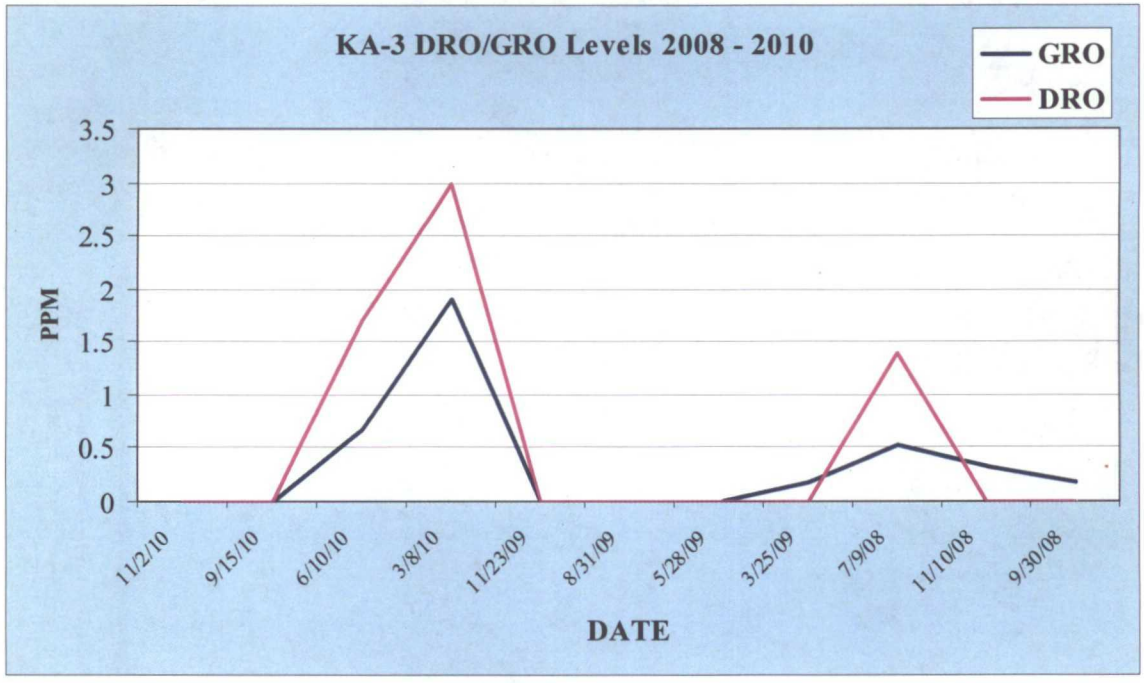

Table 11: KA-3 DRO/GRO Levels for 2008 through 2010.

NAPIS-1 General chemistry parameters were below the applicable detectable standards with the exception of nitrates in the third quarter detected at 11.2 ppm which is above the WQCC and MCL standards of 1.0 ppm. Nitrates also was detected at levels above the the MCL standards in NAPIS-1 in the second quarter at 2.0 ppm to 11.2 ppm in the third quarter. NAPIS-2 had fluoride and chloride levels above the WQCC applicable standard. NAPIS 3 and KA-3 had chloride levels above the WQCC standard of 250 ppm with a high reading of 1100 ppm in NAPIS-3 and KA-3. Total metals analysis indicated levels below the WQCC standards for NAPIS- 1 except for uranium which was detected at 0.045 ppm in the fourth quarter which is above the 0.03 ppm WQCC and MCL standards. NAPIS-2 had detection levels of barium, iron and manganese which were above the detectable levels of the WQCC and MCL standards in all three quarters. NAPIS-3 and KA-3 had detectable levels of uranium at 0.032 ppm in NAPIS-3 and manganese level of 1.4 ppm in KA-3. VOC and SVOC indicated detectable levels of 1-methylnaphthalene in NAPIS-2, NAPIS-3 in the second quarter which was above the 0.0023 ppm MCL standard. Naphthalene was also detected in NAPIS-3 in the second quarter at 0.045 ppm and KA-3 had detectable levels in the third and fourth quarter at 0.011ppm and 0.013ppm.

OW-1, OW-10

These wells were visually checked and water level measurement taken on a quarterly basis prior to the approval of the Facility Wide Monitoring Work Plan (August 25, 2010) which required this well to be sampled on a quarterly basis. Ground water samples are analyzed for the following constituents: Major cations/anions, 8260 plus MTBE, 8015B and WQCC Metals. In the first quarter, technician used the unapproved work plan as the sample plan. Ground water samples were taken on the following dates:

- OW-1, OW-10: 3/15/10, 9/21/10, 11/10/10 – Sampled
- OW-1, OW-10; 6/3/10 – Inspected

Dissolved metals analysis detected uranium levels in OW-1 at 0.0379 ppm first quarter; 0.038 ppm third quarter and 0.04 ppm in the fourth quarter which were all above the WQCC and EPA MCL standards of 0.03 ppm. Total metals ranged from 0.0394 ppm first quarter to 0.039 ppm third quarter for uranium levels.

In OW-10, chloride averaged 543 ppm with the highest reading recorded in the third quarter (790 ppm) above the EPA MCL standard of 250 ppm. Dissolved metals analysis detected uranium levels in OW-10 at 0.0497 ppm to 0.051 ppm above the WQCC and EPA MCL standards of 0.03 ppm. OW-10 also had detection levels of MTBE ranging from 0.033 ppm first quarter to 0.037 ppm in the third quarter which are above the EPA RSL standard of 0.012 ppm.

OW-11

OW-11 is sampled on an annual basis. Ground water samples are analyzed for the following constituents: Major cations/anions, 8260 plus MTBE, 8270 plus phenol, and WQCC Metals. Well was sampled on the following date:

- July 28, 2010

Fluoride level recorded 2.8 ppm which is above the WQCC standard of 1.6 ppm and sulfate was detected at 1100 ppm above the WQCC standard of 600 ppm. Uranium was also detected in OW-11 at 0.236 ppm above the WQCC standard of 0.03 ppm.

OW-13, OW-14, OW-29, OW-30

Ground water samples were collected from these wells on a quarterly basis for 2010 and analyzed for the following constituents: Benzene, toluene, ethyl benzene, total xylene (BTEX) and MTBE using EPA Method 8260B plus MTBE. These wells were sampled quarterly on the following dates:

- OW-13: 11-8-10, 9-22-10, 6-7-10 and 3-25-10.
- OW-14: 11-8-10, 9-22-10, 6-7-10 and 3-24-10.
- OW-29: 11-8-10, 9-22-10, 6-7-10 and 3-25-10
- OW-30: 11-8-10, 9-27-10, 6-4-10 and 3-24-10
- Annual samples collected in June 2010.

OW-14 in this group has shown an increase of benzene ranging from 0.0034 ppm in 2006 to a level of 0.63 ppm in November of 2010 (See Table 12). Ethyl benzene was detected in OW-14 ranging from 0.0025 ppm in December of 2006 to 0.018 ppm in fourth quarter of 2010 (Table 13). Data gathered for MTBE shows a steady increase from 0.016 ppm in October of 2006 to a reading of 1.4 ppm in November of 2010 at levels above 0.012 ppm (EPA Regional Screening Level (RSL); June 2011)). See Table 14 for trend.

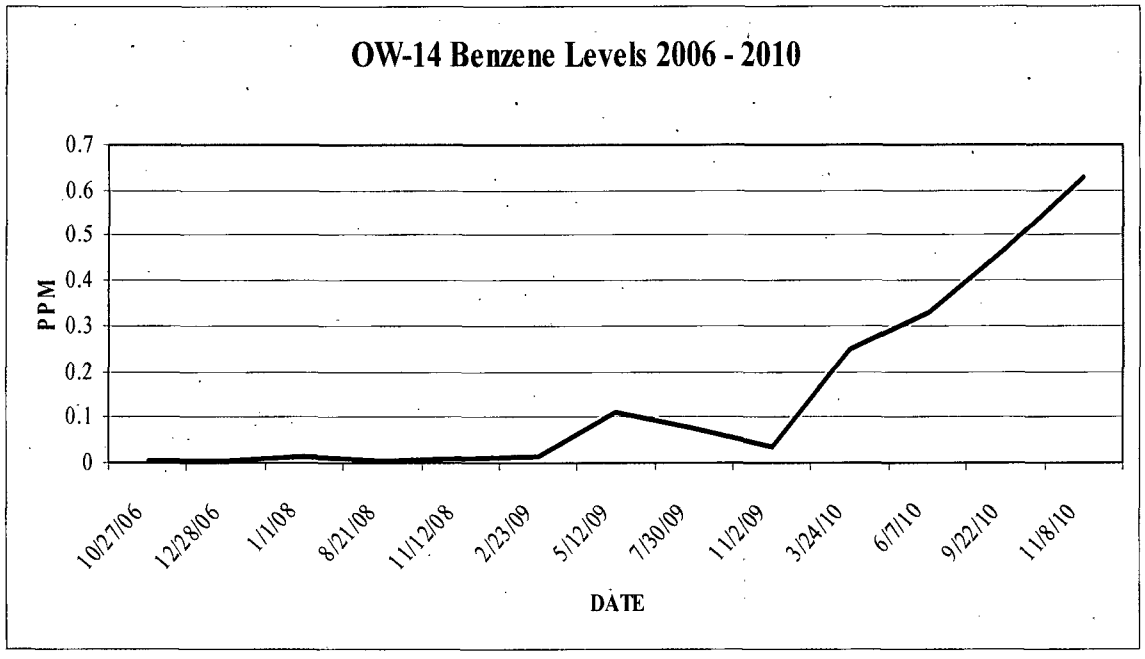

Table 12: OW-14 Benzene levels for 2006 through 2010.

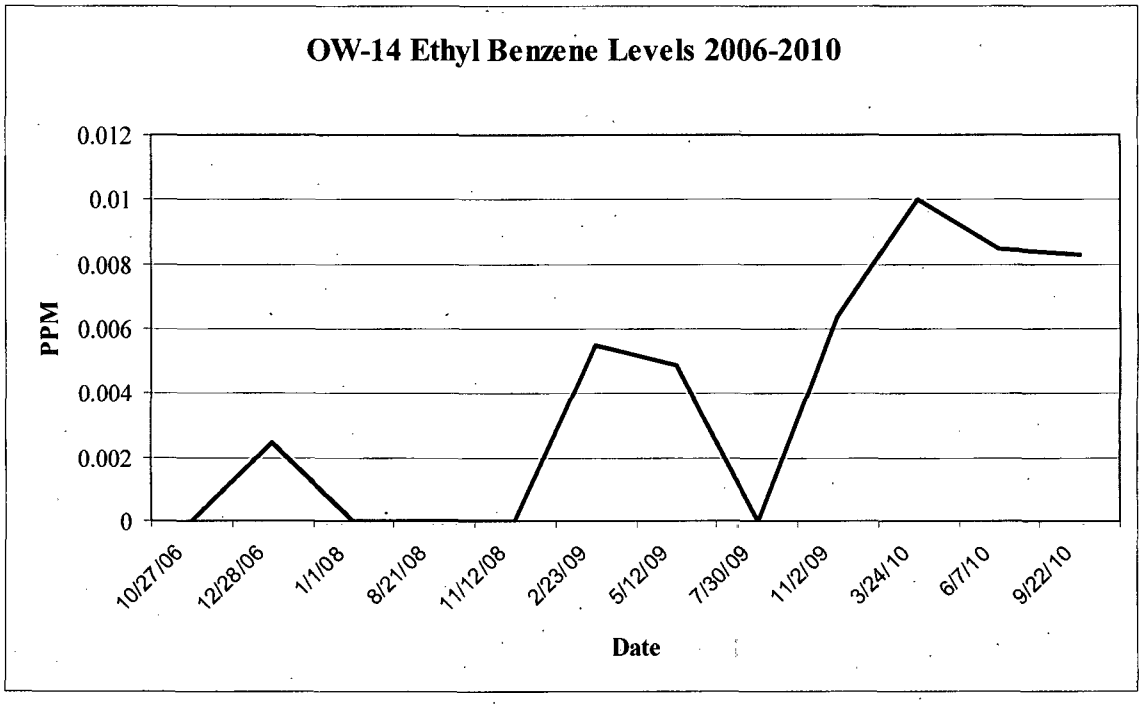

Table 13: OW-14 Ethyl Benzene levels for 2006 through 2010.

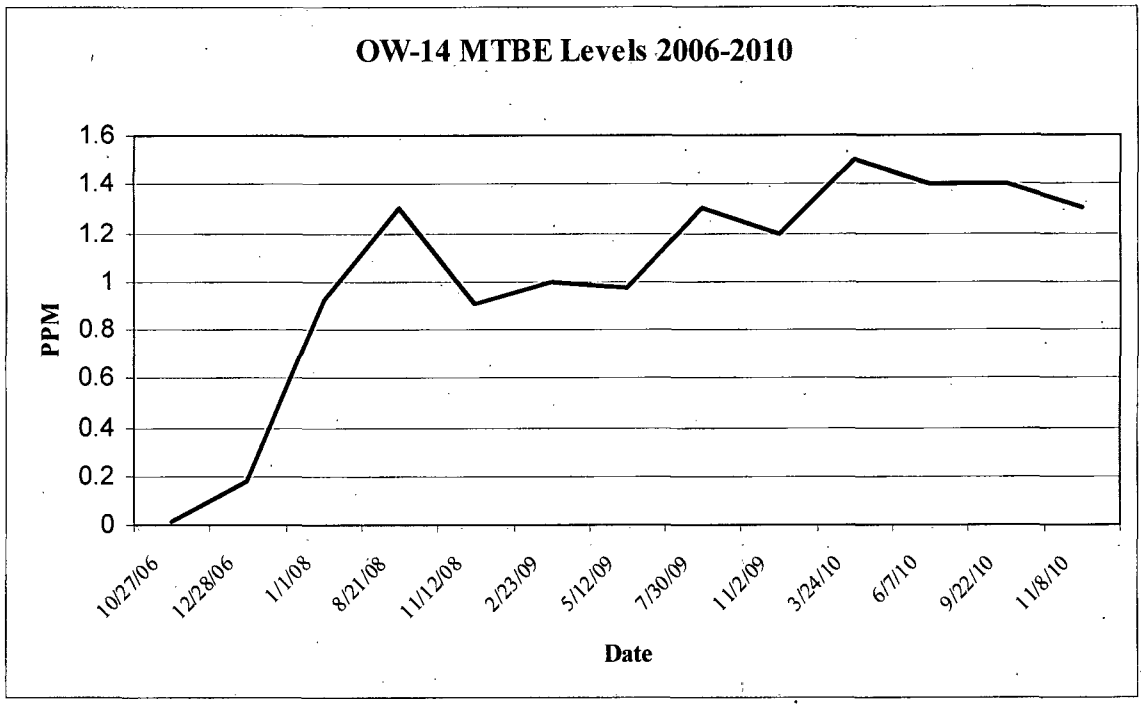

Table 14: OW-14 MTBE levels for 2006 through 2010.

In the third quarter volatile analytical results were as follows: 1-methylnaphthalene results averaged 0.021 ppm for 2010 in OW-14 which is greater than the RSL standard of 0.0023 ppm. Trace levels of 1,2,4-trimethylbenzne averaged (0.0011 ppm) below the RSL standard of 0.015 ppm; 1,2-dichloroethane (EDC) averaged 0.0017 ppm below the RSL standard of 1.5E-04 ppm. OW-14 also had detection levels of isopropyl benzene which averaged 0.0030 ppm and sec-Butylbenzene yearly average was 0.0025 ppm.

SMW-2, SMW-4

SMW-2 and SMW-4 are sampled on an annual basis. Ground water samples were analyzed for the following constituents: Major cations/anions, 8260 plus MTBE, 8015B, WQCC Metals. In March 2010, the 10 year RCRA LTU Post Closure sampling event was also conducted for well SWM-4. Wells were sampled on the following dates:

- SMW-2: July 16, 2010 - Annual
- SMW-4: March 1, 2010 – 10 Year RCRA LTU - Resample
  July 16, 2010 – Annual

SMW-2 is located on the southeast corner of the closed Land Treatment Unit and SMW-4 is located on the north side of the closed Land Treatment Unit. In SMW-2, MTBE was detected at 0.0088 ppm below the EPA RSL standard. Gasoline Range Organics in SMW-2 have ranged from 0.69 ppm in January of 2008 to non-detectable level of <0.05 ppm in July 2009. Total metals indicated detectable levels of chromium in SMW-2 at 0.093 ppm and Cyanide at 0.0525 ppm exceeding the WQCC and MCL standards.

SMW-4 was re-sampled in March 2010 for the 10 year RCRA LTU Post Closure event at the request of NMED-HWB. BTEX results were all at non-detectable levels as well as VOC and SVOC. Total metals analysis results in a detectable limit of arsenic at 0.0035ppm below the EPA MCL standard of 0.01 ppm in July 2010. Cyanide results at 0.0525 ppm which is above the WQCC and EPA MCL standards of 0.02 ppm. The following semi-volatile organics were detected in SMW-2 at levels below the NMWQS, EPA MCLs and RSL standards; (diethyl phthalate at 0.00189 ppm).

6.2 Wells with Constituent Levels below Standards

BW-1A, BW-1B, BW-1C

The boundary wells (BW) are sampled on an annual basis. Ground water samples were analyzed for the following constituents: Major cations/anions, 8260 plus MTBE, 8270 plus phenol and WQCC Metals. The boundary wells were inspected and sampled on the following dates:

- BW-1A: 7/14/10
- BW-1B: 7/14/10
- BW-1C: 7/15/10, 7-20-10 Re–sampled.

BW-1A and BW-1depth to water measurements indicated that both of these wells were dry during the July 2010 annual sampling event. No samples were collected from BW-1A and BW-1B.

BW-1C was originally sampled on 7/15/2010, packaged and sent via Federal Express for overnight delivery. Samples did not arrive at the laboratory as scheduled the next day and shipments were tracked. Federal Express was unable to locate the samples and Western had to re-sample on July 20, 2010. Method 8260B analysis indicated non-detect for BTEX which are at concentration levels less than the applicable standards and metals analysis were also below the applicable standards. No VOCs were detected.

BW-2A, BW-2B, BW-2C

The boundary wells (BW) are sampled on an annual basis. Ground water samples were analyzed for the following constituents: Major cations/anions, 8260 plus MTBE, 8270 plus phenol and WQCC Metals. The boundary wells were inspected and sampled on the following dates:

- BW-2A: 7/15/10, 7/20/10 Re-sampled
- BW-2B: 7/15/10, 7/20/10 Re-Sampled
- BW-2C: 7/15/10, 7-20-10 Re–sampled.

Wells BW-2A. 2B and 2C were originally sampled on 7/15/2010, packaged and sent via Federal Express for overnight delivery. Samples did not arrive at the laboratory as scheduled the next day and shipments were tracked. Federal Express was unable to locate the samples and Western had to re-sample on July 20, 2010. Method 8260B analysis indicated non-detect for BTEX which are at concentration levels less than the applicable standards for all three wells. Metals analysis for BW-2A indicated levels of barium at 0.13 ppm below the WQCC standard of 1.0 ppm, iron at 0.36 ppm below the WQCC standard of 1.0 ppm and manganese at 0.12 ppm which is below the WQCC standard of 0.2 ppm. General chemistry parameters were below the applicable WQCC standards. No VOCs were also detected based on the analysis by Hall Laboratories.

Metals analysis for BW-2B indicated levels of barium at 0.047 ppm, iron at 0.16 ppm and uranium at 0.012 ppm which are below the WQCC detectable standards. BW-2C analysis detected levels of barium at 0.024ppm, 0.074 ppm for iron, 0.0033 ppm for manganese and 0.006 ppm for uranium which are all below the applicable WQCC standards. No VOCs were also detected based on the analysis by Hall Laboratories.

BW-3A, 3B, BW-3C

The boundary wells (BW) are sampled on an annual basis. Ground water samples were analyzed for the following constituents: Major cations/anions, 8260 plus MTBE, 8270 plus phenol and WQCC Metals. The boundary wells were inspected and sampled on the following dates:

- BW-3A: 7/14/10
- BW-3B: 7/15/10, 7/20/10 Re-Sampled
- BW-3C: 7/15/10, 7-20-10 Re–sampled.

BW-3A depth to water measurements indicated no presence of water during the July 2010 annual sampling event. Wells BW-3B and 3C were originally sampled on 7/15/2010, packaged and sent via Federal Express for overnight delivery. Samples did not arrive at the laboratory as scheduled the next day and shipments were tracked. Federal Express was unable to locate the samples and Western had to re-sample on July 20, 2010. Method 8260B analysis indicated non-detect for BTEX which are at concentration levels less than the applicable standards for both wells. Metals analysis for BW-3B indicated levels of barium at 0.079 ppm below the WQCC standard of 1.0 ppm, iron at 0.45 ppm below the WQCC standard of 1.0 ppm and manganese at 0.074 ppm which is below the WQCC standard of 0.2 ppm. General chemistry parameters were below the applicable WQCC standards except for detectable levels of fluoride. No VOCs were also detected based on the analysis by Hall Laboratories.

GWM-2, GWM-3

GWM-2 and GWM-3 are normally dry wells and are inspected on a quarterly basis. If there is a water level detected during a quarterly inspection, notification is given to NMED-HWB and NM OCD within 24 hours of finding. Ground water samples are then

collected and analyzed for 8260 plus MTBE, 8015B, and major cations/anions. Quarterly water level measurement inspections and sampling were completed on the following dates:

- GWM-2: 9/16/10, 10-4-10 – Sampled
- GWM-2: 3/3/10, 6/3/10, 9/28/10, 10/12/10, 10/20/10, 11/2/10 - Inspected
- GWM-3: 9/16/10, 10/4/10 – Sampled
- GWM-3: 3/3/10, 6/3/10, 9/28/10, 10/12/10, 10/20/10, 11/2/10 – Inspected.

During the second quarterly inspections of GWM-2 and GWM-3, both wells were found to have a water level. Notification was given to NMED and NMOCD on June 4, 2010. At the time of the discovery, it was determined that the water level was not significant enough to obtain samples. Per NMED, the wells were purged dry. Wells were checked on June 10, 2010 and no water level was detected.

In the third quarter GWM-2 and GWM-3 both indicated a water level. NMED and NM OCD were notified of finding. Samples were obtained from GWM-2 and GWM-3. After collection of samples, both wells were purged of the remaining water. Per NMED the water levels were checked weekly. Weekly checks were completed on October 20, 2010. Based on the weekly checks there was no significant change in the water level in both wells. Weekly checks were discontinued.

Fourth quarter inspections revealed there was a water level in both wells. Notification was given to NMED and NM OCD. Samples were collected and wells purged of remaining water.

BTEX analysis indicated non-detect levels for both GWM-2 and GWM-3 which are at concentration levels below the applicable standards. Lab analysis detected MTBE in both wells at concentrations below the EPA RSL standard of 0.012 ppm. In GWM-2 MTBE was detected at 0.011 ppm. GWM-3 had a detection level of 0.0092 ppm. Method 8260B analysis indicated non-detect levels for both wells at concentrations below the applicable standards. General chemistry parameters in GWM-2 were all below detectable limits except for chloride and sulfate. GWM-3 general chemistry parameters included levels of bromide at 2.3 ppm and GRO levels at 0.12 ppm.

MW-1, MW-4, MW-5

The monitoring wells (MW) are sampled on an annual basis. Ground water samples were analyzed for the following constituents: Major cations/anions, 8260 plus MTBE and WQCC Metals. The monitoring wells were inspected and sampled on the following dates:

- MW-1: 7/16/10
- MW-4: 7/19/10

- MW-5: 7/19/10

These wells are also part of the RCRA 10 Year Post Closure Sampling Schedule. Ground water samples were analyzed for General Chemistry, RCRA list constituents (per RCRA Post Closure Schedule) and modified skinner list for metals and organics. Wells were sampled on the following dates: NMED requested that these wells be re-sampled as the soil sampling portion of the RCRA 10 Year Post Closure was completed in December of 2009.

- MW-1: 3/1/10
- MW-4: 3/2/10
- MW-5: 3/1/10

Hall Laboratory analysis indicated there was acetone detected in the trip blanks and not the actual samples which may be contamination from the laboratory. Analysis indicated non-detectable levels of concentrations on all applicable standards for BTEX, DRO/GRO and metals analysis. Acetone was detected at 0.00336 ppm in MW-5 which may be a result of contamination from the laboratory as the trip blank did show levels of acetone.

MW-2

This well is sampled per the RCRA 10 Year Post Closure Sampling Schedule. Ground water samples were analyzed for General Chemistry, RCRA list constituents (per RCRA Post Closure Schedule) and modified skinner list for metals and organics. MW-2 was sampled on the following date: NMED requested that this well be re-sampled as the soil sampling portion of the RCRA 10 Year Post Closure was completed in December of 2009.

- MW-2: 3/1/10

Laboratory analysis showed non-detectable levels for all parameters. Acetone was detected at 2.73 ppm which may be contamination from the laboratory as the trip blank did show levels of acetone.

OW-1 and OW-10

These wells were visually checked and water level measurement taken on a quarterly basis prior to the approval of Facility Wide Monitoring Work Plan (August 25, 2010). New plan requires these wells to be sampled on a quarterly basis. Ground water samples are analyzed for the following constituents: Major cation/anions, 8260 plus MTBE, 8015B and WQCC Metals. In the first quarter, technician used the unapproved work plan as the sample plan. Ground water samples were taken on the following dates:

- OW-1, OW-10: 3/15/10, 9/21/10, 11/10/10 – Sampled
- OW-1, OW-10; 6/3/10 – Inspected

These wells are visually checked and water level measurement taken on a quarterly basis. Inspections were done on 2-11-09, 5-4-09, 8-10-09 and 10-27-09. Findings are logged

and kept on file (copies of quarterly inspection are in Appendix C). BTEX results indicated non-detectable levels as well as general chemistry parameters except for high levels of chloride in OW-10.

OW-11

OW-11 is sampled on an annual basis. Ground water samples are analyzed for the following constituents: Major cations/anions, 8260 plus MTBE, 8270 plus phenol, and WQCC Metals. Well was sampled on the following date:

- 7/28/10

BTEX plus MTBE were at non-detectable levels. SVOCs and VOCs also non-detect. General chemistry results indicated chloride levels below the WQCC standard of 250 ppm. Total metals analysis had detectable levels of magnesium, manganese, potassium, calcium, and sodium at levels below the water quality standards.

OW-12

OW-12 is sampled on an annual basis. Ground water samples are analyzed for the following constituents: Major cations/anions, 8260 plus MTBE, 8270 plus phenol, and WQCC Metals. Well was sampled on the following date:

- 7/22/10

BTEX plus MTBE, SVOCs and VOCs were at non-detectable levels.

OW-50, OW-52

OW-50 and 52 are sampled on a quarterly basis. Ground water samples are analyzed for the following constituents: 8260 plus MTBE, 8270 plus phenol, 8015B, General Chemistry and WQCC Metals. Wells were sampled on the following dates:

- OW-50: 3/16/10, 6/1/10, 9/27/10, 11/9/10
- OW-52; 3/16/10, 6/1/10, 9/27/10, 11/9/10

Both of these wells were installed in October 2009 to monitor the possible migration of MTBE from up-gradient wells OW-14, 29 and 30. 2010 analysis of BTEX and MTBE parameters indicate non-detect in all four quarters in 2010. Method 8260B analysis also indicated non-detectable levels as well as method 8270C. Trace level of bis (2-ethylhexyl)phthalate was detected in OW-50 during the first quarter sampling at 0.011 ppm. General chemistry parameters were all below the detectable standards.

PW-2, PW-3, PW-4

These wells are on a 3 year sampling schedule beginning in 2008 with PW-2 and PW-3 and a start year of 2007 for PW-4. Ground water samples are analyzed for the following constituents: 8260 plus MTBE, 8270 plus phenols, WQCC Metals, Cyanide and Nitrates. The wells were sampled on the following dates:

- PW-2: 9/12/08. Next scheduled sample date is in 2011
- PW-3: 9/23/10, 11/1/10. Sampling frequency was changed to Annual basis in 2009 as directed by NMED.
- PW-4: 7/28/10

PW-3 annual sampling was not collected in 2009 because directive from NMED was not communicated to technician who is responsible for sampling. In 2007 2-methylnaphthalene was detected in PW-3 at a concentration of 0.032 ppm which is below the EPA RSL standard of 0.15 ppm. PW-3 was re-sampled in 2008 along with a blind duplicate and results were non-detect. In 2010 lab analysis indicated non-detect for 8260 and 8270 parameters. PW-3 will continue to be sampled on an annual basis unless otherwise directed by NMED HWB.

PW-2 is scheduled to be sampled in 2011. PW-4 annual sample collection resulted in non-detectable levels for BTEX, MTBE, 8260 and 8270 parameters. Metals analysis indicated detectable levels of iron at 0.23 ppm, manganese at 0.044 ppm and uranium at 0.0021 ppm which are at levels below the applicable standards. PW-3 metals analysis resulted in trace amounts of uranium at 0.001 ppm, 0.0046 ppm of manganese, 0.47 ppm for iron and zinc at 0.037 ppm..

RW-1, RW-2, RW-5, RW-6

These recovery wells are monitored on a quarterly basis for depth to water measurements, and depth to product measurements where applicable. Product recovery is also done on a quarterly basis on RW-1, RW-4 and RW-6. The wells were inspected on the following dates.

- RW-1: 11/3/10, 9/20/10, 6/3/10, 3/3/10
- RW-2: 11/3/10, 9/20/10, 6/3/10, 3/3/10
- RW-5: 11/3/10, 9/20/10, 6/3/10, 3/3/10
- RW-6: 11/3/10, 9/20/10, 6/3/10, 3/3/10

During quarterly inspections RW-1 product recovery is conducted using a portable 2-inch bladder pump. Purge water is collected in a 55 gallon drum, the top visible layer of hydrocarbon is measured and volume is an estimated calculation. The purged water is disposed of upstream of the NAPIS. RW-1 has shown a steady decrease of hydrocarbon levels. Total year to date hydrocarbon recovery is 0.66 gallons compared to 2009 where 1.78 gallons of hydrocarbons was recovered. RW-2 has not shown any hydrocarbon levels. RW-5 has shown a steady decrease of hydrocarbon levels as well as RW-6. Each well is purged using a 3 foot disposable bailer and purge water is collected in a 5 gallon bucket. Visible layer of hydrocarbon is estimated and calculated. Purged water is

disposed of upstream of the NAPIS. In 2010, RW-5 inspections have indicated that there is no measureable hydrocarbon layer in this well. RW-6 has also shown a decrease in hydrocarbon recovery. Total year to date volume for RW-6 is 0.15 gallons.

Evaporation Ponds 1 through 12B

Evaporation ponds (EP) 1 thru 8 were sampled on an annual basis prior to the approval of the Facility Wide Ground Water Monitoring Plan, August 25, 2010. The new plan has included ponds 9, 11, 12A and 12B to the monitoring schedule as well as sampling frequency has changed to semi-annual. Pond water samples are analyzed for the following constituents: General Chemistry, 8260 plus MTBE, 8279 plus phenol, WQCC 20.6.2.3103 constituents, BOD, COD, E-Coli Bacteria and RCRA 8 metals. The ponds were sampled on the following dates:

- EP-1 thru EP-12B: 4/20/10, 4/21/10, 8/2/10, 8/3/10, 11/16/10, 11/17/10

Technician used the unapproved monitoring schedule which is why samples were collected in April 2010. Annual samples were collected in August. As per the approved plan dated 8/25/10, the semi-annual sampling was conducted on 11/17/10. Samples were collected on each of the ponds at the inlet to each pond as required.

Method 8260 analysis indicated non-detect levels of concentrations in evaporation ponds 1 thru 12b. EP-2 had 0.003 ppm of toluene, 0.0019 ethyl benzene and 0.015 totals xylene. EP-3 also had detectable levels at 0.0012 ppm toluene and 0.0057 ppm total xylene. General chemistry parameters for EP-1 had sulfate levels averaging 1123 ppm and fluoride levels averaging 263 ppm for 2010.

EP-2 thru EP-12B are the following results: Fluoride levels ranged from 350 ppm to 220 ppm, and chloride ranging from 3500 ppm to a high of 110,000 ppm. Sulfate levels for EP-2 averaged 1046 ppm, EP-3 and EP-4 averaged 1066 ppm, EP-5 averaged 1200 ppm, EP-6 averaged 1400 ppm, EP-7 averaged 8766 ppm, EP-8 averaged 13633 ppm, EP-9 averaged 6850 ppm, EP-11 averaged 3850 ppm, EP-12A averaged 2200 ppm and EP-12B averaged 1325 ppm.

Method 8270 analysis detected benzyl alcohol in EP-2, bis (2-ethylhexyl) phthalate in EP-4, EP-6, EP-7, and EP-9. 2, 4-dimethylphenol was also detected in EP-1 through EP-5. Fluorene, 2-methylnaphthalene, 2-methylphenol, 3+4 methyl phenol, naphthalene, phenanthrene and phenol all showed detectable levels in evaporations ponds 1 through 9. There were volatile and semi-volatile contaminants found that are seen to degrade as one progresses along the series of evaporation ponds 1 through 12B.

Influents: Infl to AL-1; Infl to AL-2; Infl to EP-1; BW to EP-2

These outfalls are sampled on a quarterly basis. Boiler Water (BW) to Evaporation Pond 2 (EP-2) is sampled on a semi-annual basis. Pond water is analyzed for the following constituents. Influent to AL-1 and AL-2: 8260 plus MTBE, BOD, COD, Chloride,

8015B, pH and Phenol. Influent to evaporation pond 1: Major cations/anions, pH, BOD, COD, RSLs, 8260 plus MTBE, 8270 plus phenol, 8015B, and WQCC Metals. BW to EP-2 is sampled for major cations and major anions. Influents were sampled on the following dates:

- Influent to AL-1 (Infl to AL-1): 3/9/10, 6/7/10, 9/13/10, 11/3/10
- Influent to AL-2 (Infl to AL-2): 3/9/10, 6/7/10, 9/13/10, 11/3/10
- Influent to EP-1 (Infl to EP-1): 3/10/10, 6/28/10 ,9/13/10, 11/3/10
- Boiler Water Inlet to EP-2 (BW to EP-2): 4/20/10, 6/28/10, 11/16/10

General chemistry parameters analyzed for Infl to AL-1 and AL-2 detected the following: Fluoride levels at 95 to 160 ppm. Sulfate levels ranged from 950 ppm to 990 ppm. DRO was detected from a low of 1.3 ppm to a high of 60 ppm in Al-1. Infl to EP-1 fluoride levels ranged from 66 ppm to 100 ppm and chloride ranged from 440 ppm to 220 ppm. Sulfate averaged 1413 ppm. DRO averaged 64.8 ppm.

Methods 8260 and 8270 analysis indicated detectable levels of volatile and semi-volatile organics, mainly 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene, 1-methylnaphthalene and 2-methylnaphthalene, 2,4-dimethylphenol in Infl to AL-1, Infl to AL-2 and Infl to EP-1. Metals analysis also indicated detectable levels of arsenic, barium, copper, chromium, iron, manganese, selenium, mercury, uranium and zinc.

BW to EP-2 had detectable levels of fluoride, RSL and sulfates.

Effluents: AL-2 to EP-1; Pilot Effluent, NAPIS Effluent

The effluents are sampled on a quarterly basis. Pilot Effluent is sampled for the following constituents: 8260 plus MTBE, 8015B, BOD, COD and WQCC Metals. NAPIS Effluent is sampled for the following constituents: General chemistry, 8260 plus MTBE, 8270 plus phenol, 8015B and WQCC Metals. AL-2 to EP-1 is sampled for the following constituents: Major cations/anions, 8260 plus MTBE, 8270 plus Phenol, 8015B and WQCC Metals. The effluents were sampled on the following dates:

- AL-2 to EP-1: 3/9/10, 6/8/10, 9/13/10, 11/3/10
- Pilot Effluent: 3/10/10, 6/28/10, 9/16/10, 9/20/10, 11/3/10
- NAPIS Effluent: 3/9/10, 6/8/10, 9/13/10, 11/3/10

BTEX and MTBE parameters for AL-2 to EP-1 and Pilot Effluent showed non-detect. NAPIS effluent had detectable levels of benzene averaging 9.85 ppm; toluene 18.5 ppm; ethyl benzene 1.91 ppm and total xylene at 10.8 ppm. MTBE was at non-detectable levels. Fluoride, chloride, and sulfate detectable levels were as follows: for AL-2 to EP-1, fluoride averaged 89 ppm; chloride averaged 250 ppm and sulfate at 1016 ppm. DRO averaged 90.7 ppm. NAPIS effluent fluoride levels averaged 127.5 ppm, Chloride averaged 255 ppm. Sulfates ranged from 610 ppm to a high of 1300 ppm. pH level (9.04) was above the limits set by WQCC 20.6.2.2101A of 6.6 to 8.6. DRO ranged from a low of 39 ppm to a high of 150 ppm.

Leak Detection Units (LDU): East LDU, West LDU, Oil Sump LDU

The LDU or otherwise known as the NAPI secondary containment Units are a new addition to the sampling/monitoring schedule. These units are sampled/inspected on a quarterly basis. LDUs are sampled for the following constituents: 8021 plus MTBE, 8015B and WQCC Metals. The units were sampled on the following dates:

- East LDU: 3/18/10, 9/20/10, 11/11/10
- West LDU: 3/19/10, 9/20/10, 11/11/10
- Oil Sump LDU: 3/18/10, 9/20/10, 11/11/10

BTEX parameters were detected in all leak detection units. MTBE was non-detect for all units. DRO ranged from 16000 ppm to a low of 63 ppm in the East LDU. In the West LDU, DRO averaged 13.6 ppm and the Oil Sump LDU had a high DRO level of 1400 ppm in the third quarter and a low of 35 ppm in the first quarter. 8021B analysis detected levels of 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene in the third quarter

Boiler Water to Evaporation Pond 2 (BW to EP-2)

BW to EP-2 is sampled on a semi-annual basis and sampled for the following constituents: Major cations and anions. BW to EP-2 was sampled on the following dates:

- BW to EP-2: 4-20-10, 6-28-10, 11-16-10

Chloride and sulfate levels during the fourth quarter indicated levels above the WQCC standards. Chlorides detected at 53000 ppm and sulfate at 1200 ppm.

Evaporation Pond 2 Inlet (EP-2 Inlet)

EP-2 Inlet is sampled on an annual basis and sampled for the following constituents: 8260 plus MTBE, 8015B, BOD, COD and TDS. EP-2 Inlet was sampled on the following date:

- EP-2 Inlet: 7-21-10

BTEX parameters were all below the detectable standards. DRO was detected at 21 ppm and TDS was detected at 4120 ppm. Method 8260B analysis all indicated levels below the applicable standards with only Acetone being detected at 0.49 ppm which is below the EPA RSL standard of 22 ppm.

6.3 Deviations from OCD Groundwater Discharge Permit GW-032

The approved August 25, 2010 Facility Wide Ground Water Monitoring Work Plan monitoring schedule differed from the previous monitoring schedule. Evaporation Ponds 9, 11, 12A and 12B were added to the list as well as sampling frequency was changed to semi-annual versus annual. OW-1 and OW-10 were added to the sampling plan instead

of an inspection schedule quarterly. Technician used the unapproved ground water monitoring schedule dated December 2009 as the sample schedule which is why there are sample results recorded in the first quarter for locations which required quarterly or semi-annual sampling. PW-3 a deep aquifer well had shown a suspect level of 2-methylnaphthalene in sampling conducted in 2007, in 2008 we collected an additional sample of this well, along with a blind duplicate in which both samples were clean. However it was directed by the NMED HWB that because of the detection of 2-methylnaphthalene this well will be sampled annually beginning in 2009.

All other outfalls required to be sampled under the OCD Ground Water Discharge permit GW-032, were monitored as required and the data have been presented in Section 2.0 and Appendix J.

7.0 Conclusions

This section is an overview of conclusions for the monitoring program required by the permit.

Ground Water Monitoring

There are a total of thirty-nine monitoring wells distributed within the boundaries of the refinery of which, sixteen monitoring wells are located along the perimeter of the aeration lagoons and evaporation ponds. There are two major sections of the refinery which we have defined as the East and West side for periodic monitoring.

East Side Ground Water

Ground water monitoring activities on the East side have shown that Methyl-tert butyl ether (MTBE) is present in all four well locations (OW-13, OW-14, OW-29, and OW-30) on the northeast corner of the active refinery perimeter. In three wells OW-14, OW-29 and OW-30, the MTBE is as follows: OW-14, MTBE ranges from 1.5 ppm first quarter to a level of 1.3 ppm fourth quarter. OW-29, MTBE ranges from 0.12 ppm to 0.22 ppm in the fourth quarter. OW-30, MTBE remains steady at 1.1 ppm for all four quarters. All detectable levels of MTBE are above the EPA RSL of 0.012 ppm. In March of 2010 dedicated pumps were installed in all four wells to prevent possible cross contamination from using a portable submersible pump even though the pump was decontaminated and rinsed (three times) with an Alconox mixture before each use. Two new wells (OW-50 and OW-52) were installed in October 2009 down gradient of OW-13, OW-14 and OW-29 to monitor possible migration of MTBE from these wells. 2010 BTEX and MTBE analysis all showed non-detectable levels for the year.

Within the perimeter of the active refinery in this north-east section, there are several shallow recovery wells (RW-1, RW-2, RW-5 and RW-6) from which separate-phase hydrocarbons have been recovered and still continue to be recovered. Of these wells RW-2 has shown no product levels and RW-5 inspections for the year have shown no detectable hydrocarbon level. RW-1 and RW-6 are the only two recovery wells where hydrocarbons are recovered on a quarterly basis. In 2010 a total of 0.66 gallons was recovered compared to 1.78 gallons in 2009. RW-6 had a total of 0.15 gallons in 2010.

West Side Monitoring

The West side consists of ground water monitoring wells near the aeration lagoons and alongside a series of large evaporation ponds. Immediately down gradient of the refinery's oil/water separator, a sample from a shallow ground water monitoring well (NAPIS-2) had MTBE at a level ranging from 0.25 ppm to 0.27 ppm which is above the

RSL standard of 0.012 ppm. Benzene levels ranged from first quarter 0.83 ppm to fourth quarter results of 0.015 ppm, greater than the EPA RSL standard of 4.1E-04 ppm.

MTBE has also been detected in KA-3 with levels ranging between 0.011 ppm to 0.1 ppm for 2010. Chloride in NAPIS-2, NAPIS-3 and KA-3 are above the WQCC standards of 250 ppm. DRO levels in NAPIS 2 are also above the WQCC standard of 0.2 ppm averaging 5.125 ppm. 1, 1-dichloroethane was also detected in NAPIS 1, NAPIS-2 and NAPIS-3 which is above the EPA RSL standard of 0.0024 ppm. Monitoring of GWM-1 in 2010 has shown benzene concentrations averaged 0.0086 ppm which is above the US EPA RSL standard of 4.1E-04 ppm and MTBE level averaging at 0.0675 ppm in 2010 above the EPA RSL standard of 0.012 ppm.

Also located on the West side are a series of boundary (BW), observation (OW), monitoring (MW), process (PW) and shallow monitoring (SMW) wells. Among the MW and SMW monitoring, levels above the NMWQS of fluoride has been detected in some of the boundary wells. Among the MW and SMW monitoring wells in the west side, a few have shown traces of hydrocarbons. SMW-2 has shown a level of diethyl phthalate at 0.000189 ppm.

Additional Monitoring

As part of our Ground Water Permit GW-032, additional reporting is required on an annual basis and is provided in this report. This reporting includes:

- Monitoring of the aeration lagoons, ponds and outfalls between the lagoons and ponds on a quarterly and semi-annual basis.
- Summary of Waste Water Treated and Water Balance
- Summary of Underground Waste Water Lines Tested
- Summary of all EPA/NMED/RCRA Activity
- Major Refinery Activities and Events
- Summary of all Leaks, Spills and Releases
- Perimeter Inspections
- Temporary Land Farm Monitoring
- Monthly Flow Rate to NAPIS

7.1 Recommendations

- Continue the monitoring program as specified in the current OCD Groundwater discharge permit GW-032, and various requirements specified in directives from the NMED HWB
- Include the requirements of the Facility Wide Ground Water Monitoring Work Plan approved by NMED on August 25, 2010 to the program as soon as practical.
- Submit the 2010 Annual Ground Water Monitoring Report on or before September 1, 2011.

8.0 Data Tables

		Page
8.1	Effluents	57
8.2	Influents	68
8.3	Leak Detection Units	74
8.4	OW-1, OW-10	78
8.5	OW-13, OW-14, OW-29, OW-39	82
8.6	OW-50, OW-52	86
8.7	GWM-1, GWM-2, GWM-3	91
8.8	NAPIS-1, NAPIS-2, NAPIS-3, KA-3	95
8.9	BW to EP-2	103
8.10	Evaporation Ponds	105
8.11	BW Wells	122
8.12	EP-2 Inlet	128
8.13	MW Wells	131
8.14	OW-11, OW-12	136
8.15	SMW-2, SMW-4	139
8.16	PW-2, PW-3, PW-4	143

8.1 EFFLUENTS (AL-2 to EP-1, Pilot Effluent, NAPIS Effluent)
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			0.01	0.75	0.75	0.62	NE
40 CFR 141.62 MCL			0.005	1	0.7	10	NE
EPA RSL for Tap Water (June 2011)			4.10E-04	2.3	0.0015	0.2	0.012
SAMPLE LOCATION	DATE SAMPLED	METHOD					
AL-2 to EP-1	11/3/2010	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	9/13/2010	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	6/8/2010	8260B	<0.01	<0.01	<0.01	<0.0015	<0.01
	3/9/2010	8260B	<0.005	0.011	<0.005	0.013	<0.005
	11/10/2009	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	8/19/2009	8260B	<0.005	0.0044	0.0014	0.011	<0.005
	5/26/2009	8260B	<0.005	<0.005	<0.005	0.0073	<0.005
	3/31/2009	8260B	<0.005	<0.005	<0.005	0.03	<0.005
	12/2/2008	8260B	**0.012**	0.085	**0.028**	0.021	<0.005
	9/9/2008	8260B	<0.02	<0.02	<0.02	<0.03	<0.02
	6/17/2008	8260B	<0.005	<0.005	<0.005	<0.005	<0.005
	3/10/2008	8260B	**0.19**	0.46	**0.099**	**0.68**	<0.01
Pilot Effluent	11/3/2010	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	9/16/2010	8260B	<0.001	<0.001	<0.001	<0.003	<0.0015
	6/28/2010	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	3/10/2010	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	11/10/2009	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	8/19/2009	8260B	<0.005	0.0038	<0.005	<0.0075	<0.005
	5/27/2009	8260B	<0.005	0.0045	<0.005	<0.0075	<0.005
	3/31/2009	8260B	<0.005	0.0068	<0.005	<0.0075	<0.005
	12/2/2008	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	9/9/2008	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	6/17/2008	8260B	<0.001	0.0062	<0.001	<0.0015	<0.001
	3/11/2008	8260B	<0.001	0.0015	<0.001	<0.0015	<0.00
Napis Effluent	11/3/2010	8260B	**4.2**	**12**	**1.5**	**8.4**	<0.1
	9/13/2010	8260B	**12**	**30**	**2.8**	**17**	<0.1
	6/8/2010	8260B	**1.5**	**6**	**0.67**	**3.8**	<0.05
	3/9/2010	8260B	**13**	**26**	**2.7**	**14**	<0.05
	11/10/2009	8260B	**5.9**	**16**	**1.6**	**9.4**	<0.05
	8/19/2009	8260B	**2.6**	**7.1**	**0.71**	**4.2**	<0.05
	5/26/2009	8260B	**4.1**	**14**	**1.6**	**10**	<0.05
	3/31/2009	8260B	**2.6**	**7.4**	**0.54**	**3.5**	<0.05
	12/2/2008	8260B	**1.4**	**3.3**	**0.36**	**1.9**	<0.05
	9/9/2008	8260B	**0.36**	**0.39**	**0.028**	**0.2**	<0.05
	6/17/2008	8260B	**0.84**	**1.5**	**0.14**	**0.89**	<0.1
	3/10/2008	8260B	**0.47**	0.73	**0.15**	**0.97**	<0.05

8.1 EFFLUENTS (AL-2 to EP-1, Pilot Effluent, NAPIS Effluent)
BTEX Analytical Result Summary

NOTES
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
1. EPA Regional Screening Level (RSL); June 2011

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

EFFLUENT (AL-2 to EP-1, Pilot Effluent, NAPIS Effluent)
General Chemistry Analytical Result Summary

			Parameters										
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mmhos/cm)	DRO (mg/L)	GRO (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**1.6**	**250.0**	**NE**	**NE**	**10**	**NE**	**600.0**	**6 to 9**	**NE**	**0.2[1]**	**NE**
40 CFR 141.62 MCL (mg/L)			**4.0**	**NE**	**NE**	**1**	**10**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
SAMPLE LOCATION	**DATE SAMPLED**	**METHOD**											
AL-2 to EP-1	11/3/2010	300.0	**77**	230	NL	<2.0	4	<10	**880**	NR	NR	**98**	0.36
	9/13/2010	300.0	**60**	240	NL	**1.2**	<1.0	<10	**1300**	NR	NR	**9.1**	0.51
	6/8/2010	300.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**66**	0.56
	3/9/2010	300.0	**130**	**280**	1.6	**7.4**	7.4	<5.0	**870**	NR	NR	**190**	<1.0
	11/10/2009	300.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	**49**	0.48
	8/19/2009	300.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	**41**	<5.0
	5/26/2009	300.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	**12**	0.15
	3/31/2009	300.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	**76**	0.63
	12/2/2008	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**160**	<5.0
	9/9/2008	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**44**	<5.0
	6/17/2008	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**140**	1.4
	3/10/2008	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**24**	1.7
Pilot Effluent	11/3/2010	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**15**	0.065
	9/16/2010	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**5.3**	<0.05
	6/28/2010	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**19**	<0.25
	3/10/2010	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**28**	<0.25
	11/10/2009	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**8.3**	<0.25
	8/19/2009	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**10**	<0.5
	5/27/2009	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**6.8**	<0.05
	3/31/2009	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**9**	<0.25
	12/2/2008	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**10**	<0.5
	9/9/2008	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**6.3**	<1.0
	6/17/2008	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**5.4**	0.078
	3/10/2008	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	**12**	<0.05
NAPIS Effluent	11/3/2010	300.0	**410**	240	NL	<2.0	**11**	<10	**820**	NR	NR	**68**	62
	9/13/2010	300.0	**20**	**260**	NL	<2.0	6.3	<10	**1300**	NR	3600	**39**	150
	6/8/2010	300.0	**37**	230	1.6	**4.2**	4.2	<5.0	**880**	**9.04**	3600	**150**	58
	3/9/2010	300.0	**43**	**290**	1.1	**5.5**	5.5	<2.5	**610**	NR	NR	**99**	120
	11/10/2009	300.0	**86**	**460**	5.4		<	36	450	8.9	3600	**130**	84
	8/19/2009	300.0	**31**	170	NL	**13**	**13**	<	**1100**	**9.21**	4000	**31**	37
	5/26/2009	300.0	**73**	120	NL	**3.1**	3.1	2.5	**620**	8.29	2600	**110**	61
	3/31/2009	300.0	**20**	140	NL	**3.1**	3.1	<	350	**9.12**	2300	**880**	48
	12/2/2008	300.0	**12**	160	NL	<1.0	1.2	<5.0	510	8.63	2200	**68**	20
	9/9/2008	300.0	**11**	78	NL	0.8	1.8	14	440	**9.44**	3300	**35**	<10

EFFLUENT (AL-2 to EP-1, Pilot Effluent, NAPIS Effluent)
General Chemistry Analytical Result Summary

			Parameters										
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mmhos/cm)	DRO (mg/L)	GRO (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			1.6	250.0	NE	NE	10	NE	600.0	6 to 9	NE	0.2[1]	NE
40 CFR 141.62 MCL (mg/L)			4.0	NE	NE	1	10	NE	NE	NE	NE	NE	NE
SAMPLE LOCATION	DATE SAMPLED	METHOD											
	6/17/2008	300.0	**19**	93	NL	<1.0	3.4	37	**630**	**9.07**	4600	**44**	11
	3/10/2008	300.0	**69**	**480**	NL	<5.0	<5.0	<25	**570**	**9.14**	2800	**290**	11

NOTES
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
[1]EPA Regional Screening Level (RSL); June 2011

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

8.1.2 EFFLUENTS (AL-2 to EP-1, Pilot Effluent, NAPIS Effluent) BOD/COD Analytical Result Summary

			Parameters		
			BOD (mg/L)	COD (mg/L)	Phenolics (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)					
40 CFR 141.62 MCL (mg/L)					
SAMPLE LOCATION	**DATE SAMPLED**	**METHOD**			
AL-2 to EP-1	3/9/2010	8015B			30
Pilot Effluent	11/3/2010		270	900	
	9/20/2010		420	1500	
	6/28/2010		400	462	
	3/10/2010		196	455	
	11/10/2009		NA	410	
	8/19/2009		905	712	
	5/27/2009		442	431	
	3/31/2009		1519	422	
	12/2/2008		642	336	
	9/9/2008		375	795	
	6/17/2008		399	699	
	3/11/2008		618	824	
Napis Effluent	3/9/2010	8015B			28

NOTES
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
1. EPA Regional Screening Level (RSL); June 2011

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

8.1.3 EFFLUENTS (AL-2 to EP-1, Pilot Effluent, NAPIS Effluent)
Total Metals Analytical Summary Results

			Parameters											
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**0.01**	**NE**	**0.05**	**1.0**	**1.0**	**0.2**	**0.05**	**0.05**	**0.002**	**0.03**	**10**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**0.005**	**NE**	**0.1**	**1.3[1]**	**NE**	**NE**	**0.05**	**NE**	**0.002**	**0.03**	**NE**
SAMPLE LOCATON	**DATE SAMPLED**	**METHOD**													
AL-2 to EP-1	11/3/2010	6010B	<0.02	0.077	<0.002	0.02	0.0086	**11**	<0.005	0.14	<0.05	<0.005	4.6E-04	NL	0.55
	9/13/2010	6010B	<0.02	0.18	<0.002	0.84	0.023	**11**	<0.005	**0.247**	<0.05	<0.005	1.1E-03	0.001	0.63
	6/8/2010	6010B	**0.023**	0.17	<0.002	0.014	0.025	**1.6**	0.0063	0.15	<0.05	<0.005	8.2E-04	NL	0.33
	3/9/2010	6020A	9.6E-03	0.0968	<0.001	0.0392	0.0374	**19.6**	9.7E-03	**0.476**	0.0154	<0.001	4.8E-04	1.7E-03	0.584
	11/10/2009	6010B	<0.1	0.056	<0.01	<0.03	<0.03	**1.9**	<0.025	0.12	<0.25	<0.025	2.9E-04	NL	0.11
	8/21/2009	6010B	<0.1	0.055	<0.01	<0.03	<0.03	**1**	<0.025	0.093	<0.25	<0.025	4.9E-04	2.0E-03	0.3
	5/26/2009	6010B	<0.02	0.08	<0.002	<0.006	<0.006	**5.7**	7.3E-03	0.019	<0.05	<0.025	<0.0002	<0.001	0.59
	3/31/2009	6010B	2.4E-02	0.099	<0.002	0.016	NL	NL	6.4E-03	NL	<0.05	<0.005	<0.0002	NL	NL
	12/2/2008	6010B	<0.02	0.2	<0.005	<0.01	<0.02	**6.8**	<0.005	**0.4**	0.034	<0.01	4.8E-04	NL	0.59
	9/9/2008	6010B	<0.02	0.069	<0.002	0.0072	<0.006	**2.5**	<0.005	0.13	<0.05	<0.005	<0.0002	<0.001	0.19
	6/17/2008	6010B	<0.02	0.14	<0.002	0.013	0.015	**9**	<0.005	0.13	<0.05	<0.005	7.6E-04	NL	1.6
	3/10/2008	6010B	<0.02	0.017	<0.002	0.1	<0.006	**11**	<0.005	1.4	<0.05	<0.005	<0.0002	**1.9**	1.9
Pilot Effluent	11/3/2010	6010B	<0.02	<0.02	<0.002	<0.006	**0.091**	0.64	<0.005	**0.055**	<0.05	<0.005	<0.0002	NL	0.18
	6/16/2010	6010B	<0.02	<0.1	<0.01	<0.03	<0.03	3.2	<0.025	0.14	<0.25	<0.025	<0.0002	0.005	0.69
	6/28/2010	6010B	<0.02	<0.02	<0.002	<0.006	**0.055**	0.49	<0.005	**0.058**	<0.05	<0.005	<0.0002	0.001	0.12
	3/10/2010	6010B	<0.02	<0.02	<0.002	<0.006	**0.061**	0.56	<0.005	**0.049**	<0.05	<0.005	<0.0002	0.0013	0.14
	11/10/2009	6010B	<0.04	0.023	<0.004	<0.012	0.047	0.28	<0.01	**0.041**	<0.1	<0.01	<0.0002	NL	0.058
	8/19/2009	6010B	<0.02	<0.05	<0.01	<0.03	**0.063**	0.44	<0.025	**0.079**	<0.25	<0.025	<0.0002	0.001	0.15
	5/27/2009	6010B	<0.02	<0.01	<0.002	<0.006	0.034	0.33	<0.005	**0.048**	<0.05	<0.005	<0.0002	<0.001	0.046
	3/31/2009	6010B	<0.02	0.033	<0.002	<0.006	0.031	0.72	<0.005	0.12	<0.05	<0.005	<0.0002	0.001	0.098
	12/2/2008	6010B	<0.02	0.021	<0.005	0.01	0.4	0.36	<0.005	**0.086**	<0.02	<0.01	<0.0002	NL	0.068
	9/9/2008	6010B	<0.02	0.017	<0.002	<0.006	0.21	0.49	<0.005	**0.085**	<0.05	<0.005	<0.0002	<0.001	0.057
	3/10/2008	6010B	<0.02	0.022	<0.002	<0.006	0.018	0.35	<0.005	**0.092**	<0.5	<0.005	<0.0002	<0.1	0.055
Napis Effluent	11/3/2010	6010B	<0.1	<0.1	<0.01	<0.03	<0.03	**13**	<0.025	0.16	<0.25	<0.025	6.0E-04	NL	0.32
	9/13/2010	6010B	<0.02	0.12	<0.002	0.16	0.014	**9.8**	<0.005	0.15	<0.05	<0.005	4.1E-04	0.002	1.2
	6/8/2010	6010B	<0.02	0.072	<0.002	0.0067	0.012	**7.8**	<0.005	0.1	<0.05	<0.005	1.4E-03	NL	0.11
	3/10/2010	6020A	6.2E-03	0.0926	<0.001	0.0372	0.0223	**11.1**	4.1E-03	**1.67**	0.0155	<0.001	8.6E-04	1.1E-03	0.206
	11/10/2009	6010B	<0.1	0.77	<0.01	0.035	**0.053**	**19**	0.029	0.15	<0.25	<0.025	0.00055	NL	0.47
	8/19/2009	6010B	<0.01	<0.05	<0.01	<0.03	<0.03	**13**	<0.025	0.06	<0.25	<0.025	<0.0002	0.002	0.16
	5/26/2009	6010B	<0.02	0.09	<0.002	0.011	0.023	**4.1**	0.0063	0.17	<0.05	<0.005	0.009	<0.001	0.34
	3/31/2009	6010B	<0.02	0.069	<0.002	<0.006	**0.054**	**1.7**	<0.005	0.056	<0.05	<0.005	0.0003	<0.001	0.26
	12/2/2008	6010B	<0.02	0.11	<0.005	<0.01	<0.02	**1.8**	<0.005	0.17	<0.02	<0.01	0.00026	<0.001	0.23
	9/19/2008	6010B	<0.02	0.062	<0.002	<0.006	<0006	0.076	<0.005	0.057	0.052	<0.005	<0.0002	<0.001	<0.02
	6/17/2008	6010B	<0.02	0.081	<0.002	<0.006	<0.006	**1.1**	<0.005	0.057	<0.05	<0.005	<0.0002	<0.1	0.19
	3/10/2008	6010B	<0.02	0.32	<0.002	0.019	**0.053**	**10**	0.013	**0.2**	<0.5	<0.005	<0.0002	<0.1	1.3

8.1.3 EFFLUENTS (AL-2 to EP-1, Pilot Effluent, NAPIS Effluent)
Total Metals Analytical Summary Results

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
[1] National Primary Drinking Water Regulation (May 2009); Action Level

NOTES

8.1.4 EFFLUENTS (AL-2 to EP-1, Pilot Effluent, NAPIS Effluent)
Dissolved Metals Analytical Result Summary

			Parameters														
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**0.01**	**NE**	**0.05**	**1.0**	**1.0**	**0.05**	**NE**	**0.2**	**NE**	**0.05**	**0.05**	**NE**	**0.03**	**10.0**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**0.005**	**NE**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**NE**	**NE**	**0.05**	**NE**	**NE**	**0.03**	**NE**
SAMPLE LOCATION	**DATE SAMPLED**	**METHOD**																
AL-2 to EP-1	11/3/2010	200.7/200.8	<0.02	0.035	<0.002	31	0.0066	<0.006	**2.6**	<0.005	11	0.13	36	<0.05	<0.005	630	NL	NL
	9/13/2010	200.7/200.8	<0.02	0.042	<0.002	37	**0.08**	<0.006	**1.6**	<0.005	14	0.2	25	<0.05	<0.005	730	<0.001	NL
	6/8/2010	200.7/200.8	<0.02	0.037	<0.002	40	0.0089	0.0068	**6.5**	<0.005	13	0.13	13	<0.05	<0.005	850	<0.001	0.064
	3/9/2010	200.7/200.8	0.0067	0.0305	<0.001	35.3	0.0188	7.3E-03	**12.1**	3.8E-03	10.7	**0.456**	58.2	9.8E-03	NL	678	<0.001	0.34
Pilot Effluent	11/3/2010	6010B	<0.1	<0.1	<0.01	130	<0.03	<0.03	<0.1	<0.025	31	0.052	21	<0.25	<0.025	250	NL	NL
	9/16/2010	6010B	<0.02	0.022	<0.002	140	<0.006	<0.006	0.3	<0.005	30	0.057	18	<0.05	<0.005	240	0.001	NL
	6/28/2010	6010B	<0.02	<0.02	<0.002	NL	<0.006	<0.006	0.097	<0.005	NL	0.068	NL	<0.05	<0.005	NL	NL	NL
	3/10/2010	6020A	<0.02	<0.02	<0.002	NL	<0.006	0.0095	0.13	<0.005	NL	0.039	NL	<0.05	<0.005	NL	<0.001	<0.05
NAPIS Effluent	11/3/2010	6010B	<0.02	0.028	<0.002	6.7	0.024	<0.006	**6**	<0.005	7.7	0.17	76	<0.05	<0.005	570	NL	NL
	9/13/2010	6010B	<0.02	0.085	<0.002	60	**0.08**	<0.006	**3.7**	<0.005	14	0.14	13	<0.05	<0.005	790	0.002	NL
	6/8/2010	6010B	<0.02	0.035	<0.002	35	<0.006	<0.006	**4.6**	<0.005	10	0.094	10	<0.05	<0.005	730	NL	0.051
	3/10/2010	6020A	2.3E-03	5.7E-03	<0.001	136	9.6E-03	<0.001	0.693	<0.001	0.56	0.124	30.9	9.4E-03	NL	1910	1.0E-03	0.0157

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a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
[1] National Primary Drinking Water Regulation (May 2009); Action Level

NOTES

8.1.5 EFFLUENTS (AL-2 to EP-1, Pilot Effluent, NAPIS Effluent)
Volatile Organic Analytical Result Summary

			Parameters														
			1,2,4-Trimethyl benzene (mg/L)	1,3,5-Trimethyl benzene (mg/L)	Naphthalene (mg/L)	1-Methyl naphthalene (mg/L)	2-Methyl naphthalene (mg/L)	Acetone (mg/L)	2-Butanone (mg/L)	Carbon Disulfide (mg/L)	Chloro ethane (mg/L)	Chloro form (mg/L)	Isopropyl benzene (mg/L)	4-Isopropyl toluene (mg/L)	n-Butyl benzene(mg/L)	n-Propyl benzene (mg/L)	Sec-Butyl benzene (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
40 CFR 141.62 MCL (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			0.015	0.37	1.4E-04	0.0023	0.15	22	NE	1	NE	1.9E-04	NE	NE	1.8	NE	NE
SAMPLE LOCA	DATE SAMPLED	METHOD															
AL-2 to EP-1	11/3/2010	8260B	<0.005	<0.005	<0.01	**0.024**	0.041	1.8	0.14	<0.05	<0.01	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	9/13/2010	8260B	<0.005	<0.005	<0.01	<0.02	<0.02	0.91	0.21	<0.05	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	6/8/2010	8260B	<0.01	<0.01	<0.02	<0.04	<0.04	0.29	<0.1	<0.1	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	3/9/2010	8260B	**0.019**	<0.005	**0.045**	**0.21**	**0.34**	1.7	<0.05	<0.05	<0.01	<0.005	<0.005	<0.005	0.005	<0.005	<0.005
	11/10/2009	8260B	0.0052	<0.01	**0.012**	**0.04**	0.047	0.75	0.089	0.24	0.26	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	8/19/2009	8260B	0.012	0.004	**0.023**	**0.052**	0.084	1.2	<0.01	<0.01	<0.002	<0.001	<0.001	<0.001	0.0044	0.0015	ND
	5/26/2009	8260B	0.0063	0.0025	**0.0023**	**0.047**	0.041	1.5	0.081	<0.01	<0.002	<0.001	<0.001	<0.001	0.0012	ND	ND
	3/31/2009	8260B	**0.022**	0.0058	**0.05**	**0.17**	**0.24**	0.93	<0.01	<0.01	<0.02	<0.001	<0.001	<0.001	0.0079	ND	ND
	12/2/2008	8260B	0.12	0.041	**0.078**	**0.19**	**0.28**	1.9	0.095	<0.5	<0.01	<0.05	0.0066	0.0067	<0.05	0.013	ND
	9/9/2008	8260B	<0.02	<0.02	<0.04	<0.08	<0.08	2.2	<0.20	<0.2	<0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	6/17/2008	8260B	**0.039**	ND	**0.051**	**0.18**	**0.26**	3.8	0.35	<0.2	<0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	3/1008	8260B	**0.6**	0.17	**0.33**	**0.34**	**0.52**	2.2	0.48	<0.1	<0.02	<0.01	0.012	0.015	0.055	0.045	<0.01
Pilot Effluent	11/3/2010	8260B	<0.005	<0.005	<0.01	<0.02	<0.02	0.098	<0.05	<0.5	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	9/16/2010	8260B'	<0.001	<0.001	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
	6/28/2010	8260B	<0.005	<0.005	<0.005	<0.02	<0.02	<0.05	<0.05	0.19	<0.01	<0.005	<0.006	<0.007	<0.009	<0.010	<0.011
	3/10/2010	8260B	<0.005	<0.005	<0.005	<0.02	<0.02	<0.05	<0.05	0.19	<0.01	<0.005	<0.006	<0.007	<0.009	<0.010	<0.011
	11/10/2009	8260B	<0.005	<0.005	<0.01	<0.02	<0.02	<0.05	<0.05	0.15	<0.01	**0.0062**	<0.005	<0.005	<0.005	<0.005	<0.005
	8/19/2009	8260B	<0.001	<0.001	<0.02	<0.004	<0.004	0.29	0.014	<0.01	<0.002	**0.0065**	<0.001	0.0019	<0.001	<0.001	<0.001
	5/27/2009	8260B	<0.001	<0.001	<0.002	<0.004	ND	0.17	<0.01	<0.01	<0.002	**0.0035**	<0.001	0.0024	<0.001	<0.001	<0.001
	3/31/2009	8260B	**0.66**	0.17	**0.5**	**0.29**	ND	0.36	0.012	<0.01	<0.002	**0.003**	<0.001	0.0079	<0.001	<0.001	<0.001
	12/2/2008	8260B	<0.001	<0.001	<0.002	<0.004	<0.004	0.058	<0.01	<0.01	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	9/9/2008	8260B	<0.005	<0.005	<0.01	<0.02	<0.02	0.3	<0.05	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	6/17/2008	8260B	<0.001	<0.001	<0.002	<0.004	<0.004	0.078	0.01	<0.01	<0.002	0.0044	<0.001	<0.001	<0.001	<0.001	<0.001
	3/10/2008	8260B	<0.001	<0.001	<0.002	<0.004	<0.004	0.49	<0.01	<0.01	<0.002	0.0069	<0.001	<0.001	<0.001	<0.001	<0.001
Napis Effluent	11/3/2010	8260B	**1.4**	**0.44**	**0.49**	<0.4	**0.47**	<1.0	<1.0	<1.0	<0.2	<0.1	<0.1	<0.1	<0.1	0.21	<0.1
	9/13/2010	8260B	**3**	0.09	**0.56**	<0.4	<0.4	<1.0	<1.0	<1.0	<0.1	<0.1	<0.1	<0.1	0.17	0.37	<0.1
	6/8/2010	8260B	**0.67**	0.22	**0.25**	**0.24**	**0.45**	<0.05	<0.5	<0.5	<0.1	<0.05	<0.05	<0.05	0.062	0.094	<0.1
	3/9/2010	8260B	**3**	**0.91**	**0.56**	**0.27**	**0.52**	<0.05	<0.5	<0.5	<0.1	<0.05	0.17	<0.05	0.32	0.54	0.07
	11/10/2009	8260B	**1.2**	**0.44**	**0.83**	**0.41**	**0.68**	11	<0.5	<0.5	<0.1	<0.05	<0.05	<0.05	<0.05	0.21	<0.05
	8/19/2009	8260B	**0.69**	0.2	**0.59**	**0.24**	**0.42**	7.2	<0.5	<0.5	<0.1	<0.05	<0.05	<0.05	<0.05	0.082	<0.05
	5/26/2009	8260B	**3**	**0.37**	**0.49**	**0.3**	**0.5**	8.9	0.8	<0.1	<0.2	<0.1	0.087	0.03	0.11	0.16	<0.05
	3/31/2009	8260B	**0.66**	0.17	**0.5**	**0.29**	**0.51**	20	2.2	<0.5	<0.1	<0.05	0.057	<0.05	0.1	0.085	<0.01

8.1.5 EFFLUENTS (AL-2 to EP-1, Pilot Effluent, NAPIS Effluent)
Volatile Organic Analytical Result Summary

			Parameters													
			1,2,4-Trimethyl benzene (mg/L)	1,3,5-Trimethyl benzene (mg/L)	Naphthalene (mg/L)	1-Methyl naphthalene (mg/L)	2-Methyl naphthalene (mg/L)	Acetone (mg/L)	2-Butanone (mg/L)	Carbon Disulfide (mg/L)	Chloro ethane (mg/L)	Chloro form (mg/L)	Isopropyl benzene (mg/L)	4-Isopropyl toluene (mg/L)	n-Butyl benzene(mg/L)	n-Propyl benzene (mg/L)	Sec-Butyl benzene (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
40 CFR 141.62 MCL (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			0.015	0.37	1.4E-04	0.0023	0.15	22	NE	1	NE	1.9E-04	NE	NE	1.8	NE	NE
SAMPLE LOCA	DATE SAMPLED	METHOD															
	12/2/2008	8260B	**0.4**	0.1	**0.43**	**0.29**	**0.46**	4.7	<0.5	<0.5	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	9/9/2008	8260B	**0.053**	<0.02	**0.087**	<0.05	<0.08	17	1.9	<0.2	<0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	6/17/2008	8260B	**0.26**	<0.1	**0.29**	**0.4**	<0.4	17	2.5	<1.0	<0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	3/10/2008	8260B	**0.59**	0.17	**0.2**	**0.25**	**0.38**	0.5	<0.5	<0.5	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

NOTES:
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES
[1] Method 8021B Short List Analytical run.

8.1.6 EFFLUENTS (AL-2 to EP-1, Pilot Effluent, NAPIS Effluent)
Volatile Organic Analytical Result Summary

			Parameters															
			Aniline (mg/L)	Benzoic Acid (mg/L)	Benzyl Alcohol (mg/L)	Bis(2-ethylhexyl)phthalate (mg/L)	Carbazole (mg/L)	Chrysene (mg/L)	Dibenzofuran (mg/L)	2,4-Dimethylphenol (mg/L)	Fluorene (mg/L)	2-Methylnaphthalene (mg/L)	2-Methylphenol (mg/L)	3+4-Methylphenol (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)	Phenol (mg/L)	Pyrene (mg/L)	Pyridine (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
40 CFR 141.62 MCL (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			NE	150	3.7	0.0048	NE	0.0029	NE	0.73	1.5	0.0023	NE	NE	1.4E-04	NE	11	1.1	0.037
SAMPLE LOCATION	DATE SAMPLED	METHOD																	
AL-2 to EP-1	11/3/2010	8270C	**0.16**	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	0.31	<0.05	<0.05	1.7	4.3	<0.05	0.068	6.3	<0.05	<0.05
	9/13/2010	8270C	**0.23**	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	<0.05	<0.05	0.4	0.064	<0.05	<0.05	0.1	<0.05	<0.05
	6/8/2010	8270C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/9/2010	8270C	**0.15**	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	**24**	0.055	**0.18**	1.2	2.7	<0.05	0.15	4.8	<0.05	
	11/10/2009	8270C	**0.15**	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	<0.05	**0.067**	1.2	2.2	<0.05	0.12	1.2	<0.05	<0.05
	8/19/2009	8270C	**0.1**	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	0.18	0.052	**0.18**	0.84	0.95	<0.05	0.26	2.6	0.063	<0.05
Napis Effluent	11/3/2010	8270C	0.35	0.37	<0.05	<0.05	<0.05	<0.05	<0.05	0.41	<0.05	**0.41**	1.5	3.6	**0.32**	<0.05	5.7	<0.05	<0.05
	9/13/2010	8270C	0.87	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	0.36	0.076	**2.3**	1.8	3.7	**2.2**	0.23	4.5	<0.05	<0.05
	6/8/2010	8270C	**0.6**	<0.1	<0.05	<0.05	<0.05	<0.05	0.085	0.71	0.21	**4.4**	3.1	5.6	**0.89**	0.99	**12**	0.1	<0.05
	3/9/2010	8270C	**1.1**	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	**0.92**	0.11	**2.1**	3.1	8.1	**1.4**	0.35	**13**	0.059	**0.076**
	11/10/2009	8270C	1.4	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.11	**1.7**	4.4	7.4	**1.3**	0.33	**14**	ND	**0.08**
	8/19/2009	8270C	**0.32**	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.34	0.21	**5.6**	1.3	2.2	**3.2**	1	4.4	0.16	<0.1
	5/26/2009	8270C	NL	NL	NL	NL	NL	NL	NL	0.2	NL	NL	1.6	3.9	NL	NL	7.2	NL	NL
	3/31/2009	8270C	<0.1	1	<0.1	<0.075	<0.05	<0.075	<0.05	<0.05	<0.05	<0.05	<0.075	0.57	<0.05	<0.05	0.056	<0.075	<0.15
	12/2/2008	8270C	NL	NL	NL	NL	NL	NL	NL	0.12	NL	NL	0.62	3.2	NL	NL	6.8	<0.05	<0.05
	9/9/2008	8270C	2.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	0.49	<0.05	**0.063**	7.4	13	**0.076**	<0.05	**25**	<0.05	<0.05
	6/17/2008	8270C	0.4	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	<0.05	**0.5**	4.9	8.5	**0.24**	0.16	**17**	<0.05	<0.05
	3/10/2008	8270C	<0.05	<0.1	<0.05	<0.05	0.071	**0.12**	<0.05	<0.05	0.093	**0.59**	0.15	0.17	**0.22**	0.44	0.19	0.15	<0.05

DEFINITIONS
NE = Not establishes
NA = Not analyzed
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NR = Not requested
Bold and highlighted values represent values above the applicable standards

NOTES

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

8.2 INFLUENTS (Infl to AL-1, Infl to AL-2, Infl to EP-1)
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			**0.01**	**0.75**	**0.75**	**0.62**	**NE**
40 CFR 141.62 MCL			**0.005**	**1**	**0.7**	**10**	**NE**
EPA RSL for Tap Water (June 2011)			**4.1E-04**	**2.3**	**0.0015**	**0.2**	**0.012**
Well ID	**DATE SAMPLED**	**METHOD**					
Infl to Al-1	11/3/2010	8260B	**0.011**	0.056	**0.019**	0.13	<0.005
	9/13/2010	8260B	**0.012**	0.031	<0.005	0.038	<0.005
	3/9/2010	8260B	**0.19**	0.6	**0.13**	**0.8**	<0.010
Infl to AL-2	9/13/2010	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	3/9/2010	8260B	**0.017**	0.061	**0.017**	0.1	<0.1
Infl to EP-1	11/3/2010	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	9/13/2010	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	6/28/2010	8260B	<0.02	<0.02	<0.02	<0.03	<0.02
	3/10/2010	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	10/27/2009	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005
	5/6/2009	8260B	<0.005	<0.005	<0.005	0.012	<0.005
	12/2/2008	8260B	0.007	0.081	0.03	0.23	<0.005
	9/9/2008	8260B	<0.01	<0.01	<0.01	<0.0015	<0.01
	8/21/2008	8260B	**0.023**	0.028	<0.005	0.029	<0.005
	6/17/2008	8260B	<0.01	0.012	<0.01	0.024	<0.01
	1/1/2008	8260B	**0.13**	0.22	**0.39**	**0.22**	0.0052
	10/30/2006	8260B	<0.01	<0.01	<0.01	0.062	<0.015
	3/30/2006	8260B	**0.21**	0.44	**0.06**	**0.43**	<0.075

NOTES
NE = Not established
NA = Not analyzed
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NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
1. EPA Regional Screening Level (RSL); June 2011

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

March 9, 2010 samples, used unapproved Facility Wide Ground Water Monitoring Work Plan for analysis.
June 7, 2010 , Method 8260B analysis not requested to be analyzed.
9/13/2010 used Facility Wide Ground Water Monitoring Work Plan sample schedule for analysis (approved August 25, 2010).

8.2.1 INFLUENTS (Infl to AL-1, Infl to AL-2, Infl to EP-1)
General Chemistry Analytical Result Summary

			Parameters												
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mg/L)	DRO (mg/L)	GRO (mg/L)	BOD (mg/L)	COD (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			1.6	250.0	NE	NE	10	NE	600.0	6.6 to 8.6[1]	NE	0.2[2]	NE	<30 mg/L[1]	<125 mg/L[1]
40 CFR 141.62 MCL (mg/L)			4.0	NE	NE	1	10	NE	NE	NE	NE	NE	NE	NE	NE
Well ID	**DATE SAMPLED**	**METHOD**													
Infl to AL-1	11/3/2010	300.0	**95**	**250**	NL	<1.0	**14**	<0.1	**950**	NR	NR	**8.1**	8	530	1100
	9/13/2010	ANIONS	NR	**260**	NR	NR	NR	NR	NR	**10.24**	NR	**7.9**	0.57	780	774
	6/7/2010	300.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	400	200
	3/9/2010	ANIONS	NR	**280**	NR	NR	NR	NR	NR	**10.44**	NR	**60**	6	1150	1760
Infl to AL-2	11/3/2010	300.0	**160**	210	NL	<2.0	5.7	<0.1	**990**	NR	NR	**7**	0.69	920	1700
	9/13/2010	ANIONS	NR	240	NR	NR	NR	NR	NR	7.75	NR	**7.3**	0.47	280	378
	6/7/2010	300.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	310	1200
	3/9/2010	ANIONS	NR	**260**	NR	NR	NR	NR	NR	8.99	NR	1.3	1.3	650	1890
Infl to EP-1	11/3/2010	300.0	**100**	220	NL	<0.002	<0.002	<1.0	**940**	7.54	4000	**45**	0.34	840	1700
	9/13/2010	300.0	**59**	230	NL	**1.5**	1.5	<5.0	**1300**	NR	NR	**9.4**	0.38	200	375
	6/28/2010	300.0	**140**	220	1.9	<1.0	<1.0	<5.0	**2000**	7.42	5200	**140**	2.8	NR	NR
	3/10/2010	300.0	**66**	**440**	1.1	**1.6**	1.6	2.5	**920**	7.94	20000	**150**	0.34	159	795
	10/27/2009	300.0	**120**	**250**	1.3	0.8	0.68	<5.0	**310**	7.76	2600	**29**	0.83	265	1660
	5/6/2009	ANIONS	**66**	120	NR	NR	NR	NR	**710**	7.36	2600	**100**	2.1	556	545
	12/2/2008	ANIONS	NR	350	NR	NR	NR	NR	NR	7.62	NR	**120**	<0.005	231	840
	9/9/2008	ANIONS	NR	170	NR	NR	NR	NR	NR	7.93	NR	**140**	<.2	260	1360
	6/17/2008	ANIONS	NR		NR	NR	NR	NR	NR	7.43	NR	**140**	2.7	NL	NL

NOTES
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STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water
[1] 20 NMAC 20.6.2.2101A
[2] NMED Table 2a. TPH Screening Guidelines for Potable Ground Water (GW-1). (Oct 2006)

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES
March 9, 2010 samples, used unapproved Facility Wide Ground Water Monitoring Work Plan for analysis.
June 7, 2010 , Method 8260B analysis not requested to be analyzed.
9/13/2010 used Facility Wide Ground Water Monitoring Work Plan sample schedule for analysis (approved August 25, 2010).

8.2.2 INFLUENTS (Infl to AL-1, Infl to AL-2, Infl to EP-1)
Volatile Organic Analytical Result Summary

			Parameters											
			1,2,4-Trimethylbenzene (mg/L)	1,3,5-Trimethylbenzene (mg/L)	Naphthalene (mg/L)	1-Methylnaphthalene (mg/L)	2-Methylnaphthalene (mg/L)	Acetone (mg/L)	2-Butanone (mg/L)	Carbon Disulfide (mg/L)	Isopropylbenzene (mg/L)	n-Butylbenzene (mg/L)	n-Propylbenzene (mg/L)	sec-Butylbenzene (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
40 CFR 141.62 MCL (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			0.015	0.37	1.4E-04	0.0023	0.15	22	NE	1	NE	1.8	NE	NE
Well ID	DATE SAMPLED	METHOD												
Infl to AL-1	11/3/2010	8260B	**0.14**	0.047	**0.078**	**0.15**	**0.25**	0.83	<0.05	<0.05	<0.05	0.029	0.019	0.0062
	9/13/2010	8260B	**0.026**	0.007	**0.03**	<0.02	0.021	1.5	0.28	<0.05	<0.005	<0.005	<0.005	<0.005
	3/9/2010	8260B	**0.41**	0.12	**0.27**	**0.091**	**0.16**	6.1	<0.1	<0.1	0.016	0.024	0.063	<0.01
Infl to AL-2	11/3/2010	8260B	0.006	<0.005	<0.01	**0.026**	0.041	1.7	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
	9/13/2010	8260B	0.0068	<0.005	<0.01	<0.02	<0.02	2.2	0.3	<0.05	<0.005	<0.005	<0.005	<0.005
	3/9/2010	8260B	**0.071**	0.021	**0.088**	**0.068**	0.11	6.9	<0.1	<0.1	<0.01	<0.01	0.01	<0.01
Infl to EP-1	11/3/2010	8260B	<0.005	<0.005	<0.01	<0.02	0.021	1.5	0.13	<0.05	<0.005	<0.005	<0.005	<0.005
	9/13/2010	8260B	<0.005	<0.005	<0.01	<0.02	<0.02	0.93	0.2	<0.05	<0.005	<0.005	<0.005	<0.005
	6/28/2010	8260B	<0.02	<0.02	<0.04	<0.08	<0.08	0.055	<0.2	<0.2	<0.02	<0.02	<0.02	<0.02
	3/10/2010	8260B	**6.1**	<0.005	0.033	**0.065**	0.1	1.9	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005
	5/6/2009	8260B	0.014	0.0061	<0.004	**0.095**	0.096	1.4	0.12	<0.02	<0.002	0.0064	<0.002	<0.002
	12/2/2008	8260B	0.11	0.037	0.072	**0.14**	**0.22**	1.7	0.1	<0.05	0.0073	0.019	0.013	<0.005
	9/9/2008	8260B	0.04	<0.01	0.067	**0.24**	**0.35**	1.7	0.21	<0.1	<0.1	0.011	<0.01	<0.01
	6/17/2008	8260B	0.033	<0.01	0.053	**0.087**	0.13	1.6	0.32	<0.1	<0.01	<0.01	<0.01	<0.01

DEFINITIONS
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water
EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES:

8.2.3 INFLUENTS (Infl to AL-1, Infl to AL-2, Infl to EP-1)
Semi Volatile Organic Analytical Result Summary

			Aniline (mg/L)	*Benzoic* Acid (mg/L)	*Benzyl* Alcohol (mg/L)	2,4-Dimethylphenol (mg/L)	2-Methylnaphthalene (mg/L)	2-Methylphenol (mg/L)	3+4-Methylphenol (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)	Phenol (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
40 CFR 141.62 MCL (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			NE	150	3.7	0.73	0.15	NE	NE	1.4E-04	NE	11
Well ID	**DATE SAMPLED**	**METHOD**										
Infl to AL-1	11/3/2010	8270C	0.58	0.32	<0.05	0.42	**0.3**	1.5	3.1	**0.08**	0.17	5.5
	9/13/2010	8270C	0.26	0.13	<0.05	0.36	<0.05	0.93	1.8	<0.05	<0.05	25
	6/7/2010	8270C	NL	NL	NL	0.2	NL	1	1.6	NL	NL	2.6
	9/8/2009	8270C	NL	NL	NL	<0.05	NL	0.15	1.1	NL	NL	2.4
	6/25/2009	8270C	NL	NL	NL	0.27	NL	1.6	3.4	NL	NL	6.8
	2/26/2009	8270C	NL	NL	NL	0.066	NL	0.75	1.9	NL	NL	4.7
	1/27/2009	8270C	NL	NL	NL	0.84	NL	1.1	4.2	NL	NL	7.9
Infl to AL-2	11/3/2010	8270C	0.21	0.14	<0.05	0.3	<0.05	1.7	3.8	<0.05	0.053	6.1
	9/13/2010	8270C	0.29	<0.1	<0.05	0.21	<0.05	0.81	0.63	<0.05	<0.05	<0.05
	6/7/2010	8270C	NL	NL	NL	<0.05	NL	<0.05	<0.05	NL	NL	<0.05
	9/8/2009	8270C	NL	NL	NL	0.098	NL	0.57	1.2	NL	NL	0.89
	9/8/2009	8270C	NL	NL	NL	0.11	NL	1.3	2.5	NL	NL	3.6
	2/26/2009	8270C	NL	NL	NL	<0.05	NL	1.2	2.4	NL	NL	5.6
	1/27/2009	8270C	NL	NL	NL	0.35	NL	1	2.4	NL	NL	2.5
Infl to EP-1	11/3/2010	8270C	0.25	0.14	<0.05	0.37	<0.05	1.6	3.7	<0.05	0.06	5.9
	9/13/2010	8270C	0.24	<0.1	<0.05	0.18	<0.05	0.48	<0.05	<0.05	<0.05	<0.05
	6/28/2010	8270C	0.06	<0.1	<0.05	<0.05	0.097	<0.05	<0.05	<0.05	0.1	<0.05
	6/7/2010	8270C	NL	NL	NL	NL	<0.05	NL	NL	NL	NL	NL
	3/10/2010	8270C	0.19	<0.1	0.87	0.37	**0.16**	1.4	1.7	<0.05	0.12	2.7
	10/27/2009	8270C	0.16	NL	NL	0.065	NL	NL	1.1	**3.9**	0.078	2.1
	9/8/2009	8270C	NL	NL	NL	0.16	NL	1.2	2.4	NL	NL	29
	5/6/2009	8270C	0.071	NL	NL	0.078	NL	0.48	NL	NL	0.12	NL
	2/26/2009	8270C	NL	NL	NL	<0.05	NL	1.3	2.5	M	NL	4.8
	12/2/2008	8270C	NL	NL	NL	0.087	NL	0.55	0.86	NL	NL	1.5
	9/9/2008	8270C	NL	NL	NL	0.2	NL	0.45	0.6	NL	NL	1.3

DEFINITIONS
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES
March 9, 2010 samples, used unapproved Facility Wide Ground Water Monitoring Work Plan for analysis.
9/13/2010 used Facility Wide Ground Water Monitoring Work Plan sample schedule for analysis (approved August 25, 2010).

8.2.4 INFLUENT (Infl to EP-1)
Total Metals Analytical Result Summary

			Parameters									
			Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Selenium (mg/L)	Mercury (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**NE**	**0.05**	**1.0**	**1.0**	**0.2**	**0.05**	**0.002**	**0.03**	**10**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**NE**	**0.1**	**1.3[1]**	**NE**	**NE**	**0.05**	**0.002**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**											
Infl to EP-1	9/13/2010	6010B	<0.02	0.17	0.76	0.02	**10**	<0.005	**0.23**	<0.05	5.6E-04	0.001	0.59
	6/28/2010	200.8	**0.021**	0.34	0.026	**0.058**	**25**	0.01	**0.31**	0.039	<0.0008	0.0053	0.55
	3/10/2010	6010B	<0.02	0.17	0.067	0.033	**18**	0.0087	**0.72**	<0.05	3.70E-04	1.69E-03	0.39

DEFINITIONS
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STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
1. National Primary Drinking Water Regulation (May 2009); Action Level

NOTES
March 9, 2010 samples, used unapproved Facility Wide Ground Water Monitoring Work Plan for analysis.
June 7, 2010 Method 8260B analysis not requested to be analyzed.
9/13/2010 used Facility Wide Ground Water Monitoring Work Plan sample schedule for analysis (approved August 25, 2010).

8.2.5 INFLUENT (Infl to EP-1)
Dissolved Metals Analytical Result Summary

			Parameters												
			Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**NE**	**0.05**	**1.0**	**1.0**	**0.05**	**NE**	**0.2**	**NE**	**0.05**	**NE**	**0.03**	**10.0**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**NE**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**NE**	**NE**	**0.05**	**NE**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**														
Infl to EP-1	11/3/2010	6010B	NL	NL	40	NL	NL	NL	NL	12	NL	40	NL	660	NL	NL
	9/13/2010	6010B	<0.02	0.044	38	**0.12**	<0.006	**2.2**	<0.005	14	**0.2**	0.26	<0.05	740	<0.001	<0.001
	6/28/2010	6010B	**0.012**	0.039	NL	0.015	<0.006	**12**	<0.005	NL	**0.27**	NL	0.029	NL	NL	0.071
	3/10/2010	6010B	<0.02	0.029	45	0.023	0.011	**9.6**	0.0072	14	**0.58**	32	<0.05	990	1.05E-03	0.28

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NR = Not requested
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STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
1. National Primary Drinking Water Regulation (May 2009), Action Level

NOTES
March 9, 2010 samples, used unapproved Facility Wide Ground Water Monitoring Work Plan for analysis.
June 7, 2010 , 8260B analysis not requested to be analyzed.
9/13/2010 used Facility Wide Ground Water Monitoring Work Plan sample schedule for analysis (approved August 25, 2010).

8.3 Leak Detection Units (East LDU, West LDU, Oil Sump LDU) BTEX and DRO/GRO Analytical Result Summary

			Parameters						
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)
WQCC 20NMAC 6.2.3103			0.01	0.75	0.75	0.62	NE	0.2[1]	NE
40 CFR 141.62 MCL			0.005	1	0.7	10	NE	NE	NE
EPA RSL for Tap Water (June 2011)			4.1E-04	2.3	0.0015	0.2	0.012	NE	NE
Well ID	**DATE SAMPLED**	**METHOD**							
East LDU	11/11/2010	8260B	**10**	**28**	**1.3**	**9**	<0.05	**63**	100
	9/20/2010	8021B	**10**	**20**	**1.1**	**8.1**	<0.13	**120**	100
	3/18/2010	8021B	**9.1**	**17**	**1.4**	**9.9**	NL	**16000**	120
West LDU	11/11/2010	8260B	7	**18**	**0.9**	**6.1**	<0.001	**16**	67
	9/20/2010	8021B	**3.1**	**5.8**	**0.36**	**2.9**	<0.0025	**9**	26
	3/18/2010	8021B	**2.7**	**4.2**	**0.19**	**1.4**	NL	**16**	24
Oil Sump LDU	11/11/2010	8260B	**8.8**	**19**	**1.6**	**10**	<0.2	**390**	110
	9/20/2010	8021B	**9.4**	**29**	**6.1**	**40**	<0.5	**1400**	650
	3/18/2010	8021B	**5.6**	**33**	**6.4**	**38**	<0.95	**35**	69

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STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
[1]. NMED Table 2a. TPH Screening Guidelines for Potable Ground Water (GW-1). (Oct 2006)

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES

8.3.1 Leak Detection Units (East LDU, West LDU, Oil Sump LDU) Total Metals Analytical Result Summary

			Parameters											
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Selenium (mg/L)	Silver (mg/L)	Mercury (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**0.01**	**0.05**	**1.0**	**1.0**	**0.05**	**0.2**	**0.05**	**0.05**	**0.002**	**0.03**	**10**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**0.005**	**0.1**	**1.3[1]**	**NE**	**.015[1]**	**NE**	**0.05**	**NE**	**0.002**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**													
East LDU	11/11/2010	6010B	<0.1	0.94	<0.01	**0.12**	<0.03	**1.1**	<0.025	**1.6**	<0.25	<0.025	<0.0002	<0.001	<0.1
	9/20/2010	6010B	<0.02	0.54	<0.002	0.039	<0.006	**7.6**	<0.005	**0.8**	<0.05	<0.005	<0.0008	<0.005	0.21
	3/18/2010	6010B	<0.1	1.3	<0.01	**0.25**	0.073	**24**	<0.025	**2**	<0.25	<0.025	<0.0008	<0.001	1.3
West LDU	11/11/2010	6010B	<0.02	0.5	<0.002	**0.15**	<0.006	0.66	<0.005	**0.68**	<0.05	<0.005	<0.0002	<0.001	<0.02
	9/20/2010	6010B	<0.02	0.27	<0.002	0.067	<0.006	0.31	NL	**0.84**	<0.05	<0.005	<0.0002	<0.05	<0.02
	3/18/2010	6010B	<0.02	0.2	<0.002	**2.4**	<0.006	**5.3**	<0.005	**3.1**	<0.05	<0.005	<0.0008	<0.001	<0.05
Oil Sump LDU	11/10/2010	6010B	<0.1	**7.2**	<0.01	**0.18**	0.25	**150**	**0.11**	**2.3**	<0.25	<0.025	**0.017**	<0.004	7.9
	9/20/2010	6010B	<0.1	**15**	<0.01	**0.23**	0.59	**130**	**0.24**	**1.6**	<0.25	<0.025	**0.011**	0.016	**13**
	3/18/2010	6010B	<2.0	<2.0	<0.2	**1.1**	4.5	NL	**1.7**	**3.3**	<5.0	<0.5	<0.004	**0.0461**	**88**

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STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
[1] National Primary Drinking Water Regulation (May 2009); Action Level

NOTES

8.3.2 Leak Detection Units (East LDU, West LDU, Oil Sump LDU) Dissolved Metals Analytical Result Summary

			Parameters										
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**0.01**	**0.05**	**1.0**	**1.0**	**0.05**	**0.2**	**0.05**	**0.05**	**0.03[1]**	**10.0**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**0.005**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**0.05**	**NE**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**												
East LDU	11/11/2010	6010B	<0.02	0.33	<0.002	0.046	<0.006	0.16	<0.005	0.59	<0.05	<0.005	<0.001	<0.05
	9/20/2010	6010B	<0.02	0.31	<0.002	0.033	<0.006	0.14	<0.005	0.73	<0.05	<0.005	<0.005	<0.05
	3/18/2010	6010B	<0.04	0.21	<0.004	0.22	<0.012	0.86	<0.01	2	<0.1	<0.01	<0.001	<0.1
West LDU	11/11/2010	6010B	<0.02	0.56	<0.002	0.18	<0.006	0.22	<0.005	0.81	<0.05	<0.005	<0.001	<0.05
	9/20/2010	6010B	<0.02	0.25	<0.002	0.062	<0.006	0.12	<0.005	0.81	<0.05	<0.005	<0.005	<0.05
	3/18/2010	6010B	<01	0.16	<0.01	2.3	<0.03	3.2	<0.025	2.9	<0.25	<0.025	<0.001	<0.25
Oil Sump LDU	11/10/2010	6010B	<0.02	0.19	<0.002	0.037	<0.006	0.15	0.0075	1.2	<0.05	<0.005	<0.001	<0.05
	9/20/2010	6010B	<0.02	0.32	<0.002	0.03	<0.006	0.12	0.0056	1.1	<0.05	<0.005	<0.025	<0.05

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STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
[1] National Primary Drinking Water Regulation (May 2009); Action Level

NOTES
Oil Sump LDU 3/18/10- Method 6010B Total Recoverable Metals Analysis run.

8.3.3 Leak Detection Units (East LDU, West LDU, Oil Sump LDU) Volatile Organic Analytical Result Summary

			Parameters	
			1,2,4-Trimethylbenzene (mg/L)	1,3,5-Trimethylbenzene (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE
EPA RSL (mg/L)			0.015	0.37
Well ID	**DATE SAMPLED**	**METHOD**		
East LDU	11/11/2010	8260B[1]	NL	NL
	9/20/2010	8021B	**0.81**	0.26
West LDU	11/11/2010	8260B[1]	NL	NL
	9/20/2010	8021B	**0.34**	0.1
Oil Sump LDU	11/11/2010	8260B[1]	NL	NL
	9/20/2010	8021B	**12**	**4.6**

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STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES:
[1] *Method 8260B Short List Run*

8.4 OW-1, OW-10

BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			0.01	0.75	0.75	0.62	NE
40 CFR 141.62 MCL			0.005	1	0.7	10	NE
EPA RSL for Tap Water (June 2011)			4.10E-04	2.3	0.0015	0.2	0.012
Well ID	**DATE SAMPLED**	**METHOD**					
OW-1	11/10/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	9/21/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	3/15/2010	8021B	<0.001	<0.001	<0.001	<0.0015	<0.001
OW-10	11/10/2010	8260B	<0.001	<0.001	<0.001	<0.0015	**0.036**
	9/21/2010	8260B	<0.001	<0.001	<0.001	<0.0015	**0.037**
	3/15/2010	8260B	<0.001	<0.001	<0.001	<0.0015	**0.033**

DEFINITIONS

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NA = Not analyzed
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NR = Not requested
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STANDARDS

WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other Standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES

Quarterly sampling for OW-1 and OW-10 began in 4th Quarter 2010 per approved Facility Ground Water Plan dated August 25, 2010.

8.4.1 OW-1, OW-10

General Chemistry Analytical Result Summary

			Parameters									
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	DRO (mg/L)	GRO (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**1.6**	**250.0**	**NE**	**NE**	**10**	**NE**	**600.0**	**6 to 9**	**0.2[1]**	**NE**
40 CFR 141.62 MCL (mg/L)			**4.0**	**NE**	**NE**	**1**	**10**	**NE**	**NE**	**NE**	**NE**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**										
OW-1	11/10/2010	300.0	0.31	64	NL	<1.0	<1.0	<0.5	180	NR	<1.0	<0.05
	9/10/2010	300.0	0.32	60	NL	<1.0	<1.0	<0.5	190	NR	<1.0	<0.05
	3/15/2010	300.0	0.33	58	0.24	4.1	4.1	<0.5	190	NR	<1.0	<0.05
OW-10	11/10/2010	300.0	0.38	**450**	NL	<1.0	<1.0	<0.5	150	NR	<0.001	<0.05
	9/21/2010	300.0	0.35	**790**	NL	<1.0	<1.0	<0.5	160	NR	<0.001	<0.05
	3/15/2010	300.0	0.4	390	0.7	2.2	2.2	<0.5	150	NR	<0.001	0.064

DEFINITIONS
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NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other Standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES

8.4.2 OW-1, OW-10

Total Metals Analytical Result Summary

			Parameters										
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Selenium (mg/L)	Silver (mg/L)	Uranium * (mg/L)	Mercury (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**0.01**	**0.05**	**1.0**	**0.05**	**0.2**	**0.05**	**0.05**	**0.03[1]**	**0.002**	**10**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**0.005**	**0.1**	**NE**	**0.015[1]**	**NE**	**0.05**	**NE**	**0.03**	**0.002**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**												
OW-1	11/10/2010	6010B	<0.02	<0.02	<0.002	<0.006	<0.05	<0.005	0.0066	<0.05	<0.005	**0.039**	<0.0002	<0.02
	9/21/2010	6010B	<0.02	0.038	<0.002	<0.006	0.081	<0.005	0.023	<0.05	<0.005	**0.038**	<0.0002	<0.02
	3/15/2010	6010B	<0.02	0.031	<0.002	<0.006	0.16	<0.005	0.012	<0.05	<0.005	**0.0394**	<0.0002	<0.02
OW-10	11/10/2010	6010B	<0.02	0.062	<0.002	<0.006	<0.02	<0.005	0.04	<0.05	<0.005	**0.052**	<0.0002	<0.02
	9/21/2010	6010B	<0.02	0.071	<0.002	<0.006	<0.02	<0.005	0.068	<0.05	<0.005	**0.057**	<0.0002	<0.02
	3/15/2010	6010B	<0.02	0.046	<0.002	<0.006	<0.02	<0.005	0.013	<0.05	<0.005	**0.0525**	<0.0002	<0.02

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NR = Not requested
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STANDARDS

WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
[1] National Primary Drinking Water Regulation (May 2009), Action Level

NOTES

8.4.3 OW-1, OW-10
Dissolved Metals Analytical Result Summary

			Parameters													
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium * (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**0.01**	**NE**	**0.05**	**1.0**	**1.0**	**0.05**	**0.2**	**NE**	**0.05**	**0.05**	**NE**	**0.03**	**10.0**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**0.005**	**NE**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**NE**	**0.05**	**NE**	**NE**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**															
OW-1	11/10/2010	200.7	<0.02	0.037	<0.002	2.2	<0.006	<0.006	<0.02	<0.005	0.0046	<1.0	<0.05	<0.005	300	**0.04**	<0.05
	9/21/2010	200.7	<0.02	0.029	<0.002	2	<0.006	<0.006	<0.02	<0.005	0.0041	<1.0	<0.05	<0.005	310	**0.038**	<0.05
	3/15/2010	6010B	<0.02	0.028	<0.002	2	<0.006	<0.006	<0.02	<0.005	<0.002	<1.0	<0.05	<0.005	280	**0.0379**	<0.05
OW-10	11/10/2010	200.7	<0.02	0.047	<0.002	62	<0.006	<0.006	<0.02	<0.005	0.03	1.4	<0.05	<0.005	460	**0.052**	<0.05
	9/21/2010	200.7	<0.02	0.064	<0.002	100	<0.006	<0.006	<0.02	<0.005	0.055	1.8	<0.05	<0.005	580	**0.051**	0.088
	3/15/2010	6010B	<0.02	0.044	<0.002	48	<0.006	<0.006	<0.02	<0.005	0.012	<1.0	<0.05	<0.005	420	**0.0497**	<0.05

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold-and-highlighted-values-represent-values-above-the-applicable-standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other Standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
1. National Primary Drinking Water Regulation (May 2009), Action Level

NOTES

8.5 OW-13, OW-14, OW-29, OW-30
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			0.01	0.75	0.75	0.62	NE
40 CFR 141.62 MCL			0.005	1	0.7	10	NE
EPA RSL for Tap Water (June 2011)			4.10E-04	2.3	0.0015	0.2	0.012
Well ID	DATE SAMPLED	METHOD					
OW-13	11/8/2010	8260B	<0.001	<0.001	<0.001	<0.0015	0.0038
	9/22/2010	8260B	<0.001	<0.001	<0.001	<0.0015	0.0031
	6/7/2010	8021B	<0.001	<0.001	<0.001	<0.0015	0.0027
	3/25/2010	8021B	<0.001	<0.001	<0.001	<0.0015	0.0023
	11/8/2010	8021B	<0.001	<0.001	<0.001	<0.002	<0.0025
	7/28/2009	8021B	<0.001	<0.001	<0.001	<0.0015	0.0023
	5/14/2009	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
	2/24/2009	8021B	<0.001	<0.001	<0.001	<0.002	<0.0025
	11/13/2008	8260B	<0.001	<0.001	<0.001	<0.002	0.0016
	8/19/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	12/27/2007	8260B	<0.001	<0.001	<0.001	<0.0015	0.0013
	10/27/2006	8260B	<0.001	<0.001	<0.001	<0.0015	<0.0025
OW-14	11/8/2010	8260B	**0.63**	<0.001	**0.018**	<0.0015	**1.3**
	9/22/2010	8260B	**0.47**	<0.001	**0.0083**	<0.0015	**1.4**
	6/7/2010	8260B	**0.33**	0.0018	**0.0085**	<0.0015	**1.4**
	3/24/2010	8260B	**0.25**	<0.005	**0.01**	<0.0075	**1.5**
	11/2/2009	8021B	**0.034**	0.003	**0.0064**	<0.002	**1.2**
	7/30/2009	8021B	**0.074**	0.0033	<0.001	<0.0015	**1.3**
	5/12/2009	8260B	**0.11**	0.0029	**0.0049**	<0.002	**0.97**
	2/23/2009	8260B	**0.013**	0.0014	**0.0055**	<0.001	**1**
	11/12/2008	8260B	**0.0082**	<0.001	<0.001	<0.0015	**0.91**
	8/21/2008	8260B	**0.0035**	<0.001	<0.001	<0.0015	**1.3**
	1/1/2008	8260B	**0.014**	<0.001	<0.001	<0.0015	**0.92**
	12/28/2006	8260B	**0.0042**	<0.001	**0.0025**	<0.003	**0.18**
	10/27/2006	8260B	**0.0034**	<0.001	<0.001	<0.003	**0.016**
OW-29	11/9/2010	8260B	<0.001	<0.001	<0.001	<0.0015	**0.22**
	9/22/2010	8260B	<0.001	<0.001	<0.001	<0.0015	**0.19**
	6/7/2010	8260B	<0.001	<0.001	<0.001	<0.0015	**0.15**
	3/25/2010	8260B	<0.001	<0.001	<0.001	<0.0015	**0.12**
	11/3/2009	8021B	<0.001	<0.001	<0.001	<0.002	**0.082**
	7/29/2009	8021B	<0.001	<0.001	<0.001	<0.0015	**0.049**
	5/14/2009	8260B	<0.001	<0.001	<0.001	<0.002	**0.041**
	2/25/2009	8260B	<0.001	<0.001	<0.001	<0.002	**0.021**
	11/14/2008	8260B	<0.001	<0.001	<0.001	<0.0015	**0.015**
	8/19/2008	8206B	<0.001	<0.001	<0.001	<0.0015	0.0092
	12/28/2007	8260B	<0.001	<0.001	<0.001	<0.0015	0.0043
	10/24/2006	8260B	<0.001	<0.001	<0.001	<0.003	<0.0025
OW-30	11/8/2010	8260B	<0.001	<0.001	<0.001	<0.0015	**1.1**
	9/27/2010	8260B	<0.001	<0.001	<0.001	<0.0015	**1.1**
	6/4/2010	8260B	<0.001	<0.001	<0.001	<0.0015	**1**
	3/24/2010	8260B	<0.005	<0.005	<0.005	<0.0075	**1.1**
	11/2/2009	8021B	<0.001	<0.001	<0.001	<0.002	**1.1**
	7/30/2009	8021B	<0.001	<0.001	<0.001	<0.0015	**1.1**
	5/13/2009	8260B	<0.001	<0.001	<0.001	<0.002	**1.1**
	2/23/2009	8260B	<0.001	<0.001	<0.001	<0.002	**1**

8.5 OW-13, OW-14, OW-29, OW-30
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			0.01	0.75	0.75	0.62	NE
40 CFR 141.62 MCL			0.005	1	0.7	10	NE
EPA RSL for Tap Water (June 2011)			4.10E-04	2.3	0.0015	0.2	0.012
Well ID	DATE SAMPLED	METHOD					
	11/12/2008	8260B	<0.001	<0.001	<0.001	<0.0015	**0.88**
	8/20/2008	8260B	<0.001	<0.001	<0.001	<0.0015	**1.1**
	12/28/2007	8260B	<0.001	<0.001	<0.001	<0.0015	**0.29**
	10/27/2006	8260B	<0.001	<0.001	<0.001	<0.003	<0.0025

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
1. EPA Regional Screening Level (RSL); June 2011

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES

8.5.1 OW-13, OW-14, OW-29, OW-30
Volatile Organic Analytical Result Summary

			Parameters								
			1,2,4-Trimethylbenzene (mg/L)	1,2-Dichloroethane(EDC) (mg/L)	Naphthalene (mg/L)	1-Methylnaphthalene (mg/L)	1,1-Dichloroethane (mg/L)	Isopropylbenzene (mg/L)	n-Butylbenzene (mg/L)	n-Propylbenzene (mg/L)	Sec-butylbenzene (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	0.01	NE	NE	0.025	NE	NE	NE	NE
EPA MCL (mg/L)			NE	0.005	NE	NE	NE	NE	NE	NE	NE
EPA RSL for Tap Water (mg/L)			0.015	1.5E-04	1.4E-04	0.0023	0.0024	NE	1.8	NE	NE
Well ID	DATE SAMPLED	METHOD									
OW-13	11/8/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	9/22/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	6/7/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	3/25/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	11/3/2009	8021B[1]	<0.001	NL	NL	NL	NL	NL	NL	NL	NL
	7/28/2009	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	5/14/2009	8021B[1]	<0.001	NL	NL	NL	NL	NL	NL	NL	NL
	2/24/2009	8021B[1]	<0.001	NL	NL	NL	NL	NL	NL	NL	NL
	11/13/2008	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	8/19/2008	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	12/27/2007	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	10/27/2006	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
OW-14	11/8/2010	8260B	0.0012	**0.0015**	<0.002	0.022	<0.001	0.0037	<0.001	<0.001	0.0027
	9/22/2010	8260B	<0.001	**0.0022**	<0.002	0.022	<0.001	0.0029	<0.001	<0.001	0.0028
	6/7/2010	8260B	0.0011	**0.0015**	<0.002	0.02	<0.001	0.0026	<0.001	<0.001	0.0024
	3/24/2010	8260B	<0.005	<0.005	<0.01	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005
	11/2/2009	8021B[1]	0.0027	NL	<0.002	**0.021**	NL	NL	NL	NL	NL
	7/30/2009	8260B	<0.001	**0.0017**	<0.002	**0.021**	<0.001	0.0033	0.0011	<0.001	0.0026
	5/12/2009	8021B[1]	0.0016	NL	NL	NL	NL	NL	NL	NL	NL
	2/23/2009	8021B[1]	0.0016	NL	NL	**0.012**	NL	NL	NL	NL	NL
	11/12/2008	8021B[1]	<0.001	NL	NL	NL	NL	NL	NL	NL	NL
	8/21/2008	8260B	<0.001	**0.0016**	<0.002	**0.012**	<0.001	0.0016	<0.001	<0.001	0.002
	1/1/2008[2]	8260B	<0.001	<0.001	<0.002	**0.027**	<0.001	<0.001	<0.001	0.052	0.0057
	12/28/2006	8260B	<0.001	**0.0018**	<0.002	<0.004	**0.016**	<0.001	0.015	<0.001	0.0025
	10/27/2006	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
OW-29	11/9/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	9/22/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	6/7/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	3/25/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	11/2/2009	8021B[1]	<0.001	NL	NL	NL	NL	NL	NL	NL	NL
	7/29/2009	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001

8.5.1 OW-13, OW-14, OW-29, OW-30
Volatile Organic Analytical Result Summary

			Parameters								
			1,2,4-Trimethylbenzene (mg/L)	1,2-Dichloroethane(EDC) (mg/L)	Naphthalene (mg/L)	1-Methylnaphthalene (mg/L)	1,1-Dichloroethane (mg/L)	Isopropylbenzene (mg/L)	n-Butylbenzene (mg/L)	n-Propylbenzene (mg/L)	Sec-butylbenzene (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**NE**	**0.01**	**NE**	**NE**	**0.025**	**NE**	**NE**	**NE**	**NE**
EPA MCL (mg/L)			**NE**	**0.005**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
EPA RSL for Tap Water (mg/L)			**0.015**	**1.5E-04**	**1.4E-04**	**0.0023**	**0.0024**	**NE**	**1.8**	**NE**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**									
	5/13/2009	8021B[1]	<0.001	NL	NL	NL	NL	NL	NL	NL	NL
	2/24/2009	8021B[1]	<0.001	NL	NL	NL	NL	NL	NL	NL	NL
	11/14/2008	8260B	<0.001	**0.001**	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	8/19/2008	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	12/28/2007	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	10/24/2006	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
OW-30	11/8/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	9/27/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	6/4/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	3/24/2010	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	11/2/2009	8021B[1]	<0.001	NL	NL	NL	NL	NL	NL	NL	NL
	7/30/2009	8260B	<0.001	**0.0013**	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	5/13/2009	8021B[1]	<0.001	NL	NL	NL	NL	NL	NL	NL	NL
	2/23/2009	8021B[1]	<0.001	NL	NL	NL	NL	NL	NL	NL	NL
	11/12/2008	8260B	<0.001	**0.0013**	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	8/19/2008	8260B	<0.001	<0.001	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001
	12/28/2007	8260B	<0.001	**0.0012**	<0.002	<0.004	<0.001	<0.001	<0.001	<0.001	<0.001

DEFINITIONS
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES
[1] *Method 8021B - Short List Run for analyticals*
[2] *1-1-2008 sample date are for the 2007 samples. Extreme weather conditions hampered sampling event held in the month of December 2007.*

8.6 OW-50, OW-52
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			0.01	0.75	0.75	0.62	NE
40 CFR 141.62 MCL			0.005	1	0.7	10	NE
EPA RSL for Tap Water (June 2011)			4.1E-04	2.3	0.0015	0.2	0.012
Well ID	**DATE SAMPLED**	**METHOD**					
OW-50	11/9/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	9/27/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	6/1/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	3/16/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	11/17/2009[1]	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
OW-52	11/9/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	9/27/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	6/1/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	3/16/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	11/17/2009[1]	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
1. EPA Regional Screening Level (RSL); June 2011

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES
[1] *Samples were collected by AMEC Environmental after installation of wells were completed in 10/2009.*

8.6.1 OW-50, OW-52
General Chemistry Analytical Result Summary

			Parameters										
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mg/L)	DRO (mg/L)	GRO (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**1.6**	**250.0**	**NE**	**NE**	**10**	**NE**	**600.0**	**6 to 9**	**NE**	**0.2[1]**	**NE**
40 CFR 141.62 MCL (mg/L)			**4.0**	**NE**	**NE**	**1**	**10**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**											
OW-50	11/9/2010	300.0	0.51	29	NL	<0.1	<0.1	<0.5	160	8.26	1100	<1.0	<0.05
	9/27/2010	300.0	0.41	26	NL	<0.1	<0.1	<0.5	140	NR	NR	<1.0	<0.05
	6/1/2010	300.0	0.53	27	0.22	<0.1	<0.1	<0.5	140	8.35	1000	<1.0	<0.05
	3/16/2010	300.0	0.53	29	0.22	<0.1	<0.1	<0.5	150	8.34	1000	<1.0	<0.05
	11/17/2009[2]	8015B Only	NR	NR	NR	NR	NR	NR	NR	NR	NR	<1.0	<0.05
OW-52	11/9/2010	300.0	0.54	32	0.17	<0.1	<0.1	<0.5	140	8.27	1000	<1.0	<0.05
	9/27/2010	300.0	0.52	27	NL	<0.1	<0.1	<0.5	140	NR	NR	<1.0	<0.05
	6/1/2010	300.0	0.52	28	NL	<0.1	<0.1	<0.5	140	8.25	990	<1.0	<0.05
	3/16/2010	300.0	0.56	31	0.18	<0.1	<0.1	<0.5	150	8.23	990	<1.0	<0.05
	11/17/2009[2]	8015B Only	NR	NR	NR	NR	NR	NR	NR	NR	NR	<1.0	<0.05

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water
1. NMED Table 2a. TPH Screening Guidelines for Potable Ground Water (GW-1). (Oct 2006)

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES
[2]*Samples were collected by AMEC Environmental after installation of wells were completed in 10/2009.*

8.6.2 OW-50, OW-52

Total Metals Analytical Result Summary

			Parameters									
			Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Selenium (mg/L)	Mercury (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**0.05**	**1.0**	**1.0**	**0.05**	**0.2**	**0.05**	**0.002**	**0.03**	**10**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**0.05**	**0.002**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**											
OW-50	11/9/2010	200.7	0.0031	0.038	<0.006	<0.006	<0.02	<0.005	0.079	0.0055	<0.0002	NL	0.02
	9/27/2010	6010B	<0.02	0.041	<0.006	<0.006	0.15	<0.005	0.032	<0.05	<0.0002	0.006	<0.02
	6/1/2010	6010B	<0.02	0.042	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	<0.02
	3/16/2010	6010B	<0.02	0.038	<0.006	<0.006	<0.05	<0.005	0.079	<0.05	<0.0002	6.26E-03	<0.02
	11/17/2009[2]	6010B	<0.02	0.042	<0.006	NL	NL	<0.005	NLO	<0.05	<0.0002	NL	NL
OW-52	11/19/2010	200.7	<0.0025	0.026	<0.006	<0.006	0.056	<0.005	0.028	0.0046	<0.0002	NL	<0.01
	9/27/2010	6010B	<0.02	0.025	<0.006	<0.006	0.065	<0.005	0.03	<0.05	<0.0002	0.01	<0.02
	6/1/2010	6010B	<0.02	0.024	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	3/16/2010	6010B	<0.02	0.027	<0.006	<0.006	0.15	<0.005	0.032	<0.05	<0.0002	0.0103	<0.02
	11/17/2009[2]	6010B	<0.02	0.027	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL

DEFINITIONS	**STANDARDS**
NE = Not established	WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
NA = Not analyzed	a) Human Health Standards; b) Other standards for Domestic Water
NL = Not listed on laboratory analysis	
NR = Not requested	40 CFR 141.62 Detection Limits for Inorganic Contaminants
Bold and highlighted values represent values above the applicable standards	1. National Primary Drinking Water Regulation (May 2009); Action Level

NOTES

[2]*Samples were collected by AMEC Environmental after installation of wells were completed in 10/2009.*

8.6.3 OW-50, OW-52
Dissolved Metals Analytical Result Summary

			Parameters											
			Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**NE**	**0.05**	**1.0**	**1.0**	**0.05**	**NE**	**NE**	**0.05**	**NE**	**0.03**	**10.0**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**NE**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**NE**	**0.05**	**NE**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**													
OW-50	11/9/2010	200.7	NL	0.037	NL	<0.006	<0.006	<0.02	<0.005	0.078	<1.0	0.0014	NL	NL	<0.01
	9/27/2010	6010B	<0.02	0.04	21	<0.006	<0.006	<0.02	<0.005	0.081	<1.0	<0.05	220	0.006	0.064
	6/1/2010	6010B	<0.02	0.04	20	<0.006	<0.006	<0.02	<0.005	0.083	<1.0	<0.05	220	NL	<0.05
	3/16/2010	6010B	<0.02	0.036	19	<0.006	<0.006	<0.02	<0.005	0.076	<1.0	<0.05	210	0.00641	<0.05
OW-52	11/9/2010	200.7	NL	0.025	4.2	<0.006	<0.006	0.048	<0.005	0.027	1.2	NL	240	NL	<0.01
	9/27/2010	6010B	<0.02	0.026	4.3	<0.006	<0.006	0.058	<0.005	0.031	1.2	<0.05	230	0.009	0.079
	6/1/2010	6010B	<0.02	0.026	4	<0.006	<0.006	0.058	<0.005	0.032	1.2	<0.05	230	0.00926	<0.05
	3/16/2010	6010B	<0.02	0.023	3.9	<0.006	<0.006	0.034	<0.005	0.028	1.1	<0.05	230	0.0092	<0.05

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
1. National Primary Drinking Water Regulation (May 2009); Action Level

NOTES:

8.6.4 OW-50, OW-52
Volatile Organics Analytical Result Summary

			Parameters	
			Benzoic Acid (mg/L)	Bis(2-ethylhexyl)phthalate (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE
EPA RSL for Tap Water (mg/L)			150	0.0048
Well ID	**DATE SAMPLED**	**METHOD**		
OW-50	11/9/2010	8270C	<0.02	<0.01
	9/27/2010	8270C	<0.02	<0.01
	6/1/2010	8270C	<0.02	<0.01
	3/16/2010	8270C	0.02	**0.011**
	11/17/2009[1]	8270C	<0.02	<0.01

DEFINITIONS
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES
[1] *Samples were collected by AMEC Environmental after installation of wells were completed in 10/2009. OW-52 Method 8270C analytical summary all showed levels below applicable standards and is therefore not presented as part of this table*

8.7 GWM-1, GWM-2, GWM-3
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			0.01	0.75	0.75	0.62	NE
40 CFR 141.62 MCL			0.005	1	0.7	10	NE
EPA RSL for Tap Water (June 2011)			4.1E-04	2.3	0.0015	0.2	0.012
Well ID	DATE SAMPLED	METHOD					
GWM-1*	11/2/2010	8260B	**0.0069**	0.0023	**0.0035**	0.022	**0.062**
	9/16/2010	8260B	**0.0075**	0.0049	**0.0067**	0.03	**0.053**
	7/20/2010	8260B	**0.008**	0.002	**0.0068**	0.03	**0.077**
	3/3/2010*	8260B	**0.012**	0.005	**0.011**	0.05	**0.078**
	7/27/2009	8260B	**0.0089**	0.002	**0.0074**	0.034	**0.085**
	7/10/2008	8260B	**0.011**	0.0021	**0.0039**	0.019	**0.12**
	5/24/2007	8260B	**0.016**	<0.001	<0.001	<0.003	**0.23**
	10/27/2006	8260B	**0.012**	<0.001	>0.001	<0.003	**0.16**
GWM-2**	10/4/2010	8260B	<0.001	<0.001	<0.001	<0.003	0.011
	9/16/2010	8260B	<0.001	<0.001	<0.001	<0.003	0.011
GWM-3**	10/4/2010	8260B	<0.001	<0.001	<0.001	<0.003	0.0092
	9/16/2010	8260B	<0.001	<0.001	<0.001	<0.003	0.009

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards: b) Other Standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

**GWM-1 sample schedule is on an annual basis. For this sampling period, technician used the unapproved Facility Work Plan (FWP) at the beginning of 2010. which called for this well to be sampled on a quarterly basis. The FWP was approved on August 25, 2010.*

***GWM-2 and GWM-3 are normally dry wells. During inspection of well, water was present and subsequently well was sampled and purged dry.*

8.7.1 GWM-1, GWM-2, GWM-3
General Chemistry Analytical Result Summary

			Parameters										
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mg/L)	DRO (mg/L)	GRO (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			1.6	250.0	NE	NE	10	NE	600.0	6 to 9	NE	0.2[1]	NE
40 CFR 141.62 MCL (mg/L)			4.0	NE	NE	1	10	NE	NE	NE	NE	NE	NE
Well ID	**DATE SAMPLED**	**METHOD**											
GWM-1*	11/2/2010	300.0/8015B	**3.5**	**1300**	NL	<1.0	<1.0	<5.0	26	NR	NR	**6**	0.68
	9/16/2010	300.0/8015B	**2.9**	**1400**	NL	<4.0	<4.0	<5.0	48	NR	NR	**7.7**	0.71
	7/20/2010	300.0/8015B	**2.9**	**1500**	2.6	<4.0	<4.0	<2.5	57	7.18	6400	NR	NR
	3/3/2010*	300.0/8015B	**2.1**	**1600**	2.7	<4.0	<4.0	<0.5	88	NR	NR	**3.9**	0.88
	7/27/2009	300.0/8015B	**2.1**	**1600**	NL	<4.0	<4.0	<0.5	73	7.03	6200	NR	NR
	7/10/2008	300.0/8015B	**1.7**	**1800**	NL	<2.0	<2.0	<0.5	110	6.92	7400	NR	NR
	5/24/2007	300.0/8015B	**1.9**	**1800**	NL	<2.0	<2.0	<0.5	120	NL	NL	NL	NL
	10/26/2006	300.0/8015B	**2**	**3700**	NL	<2.0	<2.0	<2.5	120	6.87	NR	NR	NR
GWM-2**	10/4/2010	300.0/8015B	0.52	**1800**	3.4	<4.0	<4.0	<0.5	**740**	NR	NR	<1.0	<0.05
	9/16/2010	300.0/8015B	0.46	**1400**	NL	<4.0	<4.0	<5.0	**700**	NR	NR	<1.0	<0.05
GWM-3**	10/4/2010	300.0/8015B	**5.9**	**1800**	2.3	**61**	**61**	<0.5	**1500**	NR	NR	**1.3**	0.12
	9/16/2010	300.0/8015B	**4.7**	**2000**	NL	**66**	**66**	<5.0	**1500**	NR	NR	**3.7**	0.066

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
[1] NMED Table 2a. TPH Screening Guidelines for Potable Ground Water (GW-1). (Oct 2006)

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES
**GWM-1 sample schedule is on an annual basis. For this sampling period, technician used the unapproved Facility Work Plan (FWP) at the beginning of 2010. which called for this well to be sampled on a quarterly basis. The FWP was approved on August 25, 2010.*
***GWM-2 and GWM-3 are normally dry wells. During inspection of well, water was present and subsequently well was sampled and purged dry.*

8.7.2 GWM-1, GWM-2, GWM-3
Total Metals Analytical Result Summary

			Parameters												
			Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Selenium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Mercury (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			0.1	1.0	NE	0.05	1.0	1.0	0.05	NE	0.05	NE	NE	0.002	0.03	10
40 CFR 141.62 MCL (mg/L)			0.01	2.0	NE	0.1	1.3[1]	NE	0.015[1]	NE	0.05	NE	NE	0.002	0.03	NE
Well ID	**DATE SAMPLED**	**METHOD**														
GWM-1	11/2/2010	6010B	**0.14**	**1.4**	310	<0.006	<0.006	**7.9**	0.0095	75	<0.05	2.9	1100	<0.0002	0.009	0.025
	9/16/2010	6010B	**0.12**	0.87	310	<0.006	0.0098	**15**	0.012	76	<0.05	2.8	1200	<0.0002	0.015	0.023
	7/20/2010	6010B	**0.16**	**1.2**	310	<0.006	0.019	**20**	0.011	70	<0.05	3.1	1200	<0.0002	0.011	0.031
	3/3/2010*	6010B	**0.098**	0.42	280	<0.006	0.0072	**15**	0.0078	57	<0.05	2.9	1200	<0.0002	0.0224	0.03
	7/27/2009	6010B	**0.114**	0.53	310	<0.006	<0.006	**14**	0.0072	78	NL	3	1300	<0.0002	0.0159	0.025
	7/10/2008	6010B	**0.07**	0.45	350	<0.006	0.014	**14**	0.01	81	<0.05	3.3	1400	<0.0002	NL	<0.05
	5/24/007	6010B	**0.081**	0.44	360	<0.006	NL	NL	<0.005	87	<0.05	3.7	1300	<0.0002	NL	NL
GWM-2**	10/4/2010	200.7[3]			420					77		3	910			
	9/6/2010	200.7[3]			430					76		3.2	950			
GWM-3**	10/4/2010	200.7[3]			450					89		7.6	1300			
	9/16/2010	200.7[3]			540					120		8.2	1400			

DEFINITIONS	STANDARDS
NE = Not established	WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
NA = Not analyzed	a) Human Health Standards; b) Other standards for Domestic Water
NL = Not listed on laboratory analysis	
NR = Not requested	40 CFR 141.62 Detection Limits for Inorganic Contaminants
Bold and highlighted values represent values above the applicable standards	[1]National Primary Drinking Water Regulation (May 2009), Action Level

NOTES

[2] *Method 6010B Total Recoverable Metals only*

[3] *Major Cations and Anions analysis only requested*

**GWM-1 sample schedule is on an annual basis. For this sampling period, technician used the unapproved Facility Work Plan (FWP) at the beginning of 2010. which called for this well to be sampled on a quarterly basis. The FWP was approved on August 25, 2010.*

8.7.3 GWM-1

Volatile and Semi-Volatile Organic Analytical Result Summary

			Parameters									
			1,2,4-Trimethylbenzene (mg/L)	1,3,5-Trimethylbenzene (mg/L)	Naphthalene (mg/L)	1-Methylnaphthalene (mg/L)	2-Methylnaphthalene (mg/L)	Acetone (mg/L)	Isopropylbenzene (mg/L)	n-Butylbenzene (mg/L)	n-Propylbenzene (mg/L)	2,4-Dimethylphenol (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	0.025	NE	NE	NE	NE	NE	NE	NE
EPA MCLs (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL for Tap Water (mg/L)			0.015	0.37	0.0024	0.0023	0.15	22	NE	1.8	NE	0.73
Well ID	DATE SAMPLED	METHOD										
GWM-1	11/2/2010	8260B	0.0075	<0.001	<0.02	**0.011**	<0.004	<0.01	<0.001	0.0016	0.0012	NA
	9/16/2010	8260B[1]	0.012	0.0019	NA	NA	NA	NA	NA	NA	NA	NA
	7/20/2010	8260B/8270C	0.013	<0.001	**0.0035**	**0.0072**	<0.004	0.012	0.0016	0.0019	0.0015	0.052
	3/3/2010	8260B	0.0081	<0.005	<0.01	<0.02	<0.02	<0.05	<0.005	<0.005	<0.005	NL
	7/27/2009	8260B/8270C	0.0064	0.0011	**0.0024**	**0.0097**	<0.004	<0.01	0.0026	<0.001	0.0002	0.064
	7/10/2008	8260B	0.0046	<0.002	<0.002	<0.008	<0.008	<0.02	<0.002	<0.002	<0.002	0.028
	5/24/2007	8260B/8270C	<0.01	<0.01	<0.02	<0.04	<0.04	<0.1	<0.01	<0.01	<0.01	<0.01

DEFINITIONS
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water
EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES:
[1]Method 8260B volatiles short list only run
**GWM-1 sample schedule is on an annual basis. For this sampling period, technician used the unapproved Facility Work Plan (FWP) at the beginning of 2010. which called for this well to be sampled on a quarterly basis. The FWP was approved on August 25, 2010.*
***GWM-2 and GWM-3 are normally dry wells. During inspection of well, water was present and subsequently well was sampled and purged dry as per the FWP*

8.8 NAPIS-1, NAPIS-2, NAPIS-3, KA-3
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			0.01	0.75	0.75	0.62	NE
40 CFR 141.62 MCL			0.005	1	0.7	10	NE
EPA RSL for Tap Water (June 2011)			4.1E-04	2.3	0.0015	0.2	0.012
Well ID	**DATE SAMPLED**	**METHOD**					
NAPIS-1	11/2/2010	8260B	<0.01	<0.01	<0.01	<0.003	<0.0015
	9/15/2010	8260B	<0.01	<0.01	<0.01	<0.002	<0.0025
	6/8/2010	8021B	<0.01	<0.01	<0.01	<0.002	<0.0025
	3/8/2010	8021B	<0.01	<0.01	<0.01	<0.002	<0.0025
	11/23/2009	8260B	<0.001	0.0016	<0.001	<0.002	<0.0025
	8/11/2009	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
	5/28/2009	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
	3/24/2009	8260B	<0.001	0.001	<0.001	<0.002	<0.0025
	11/10/2008	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
	9/30/2008	8260B	<0.001	<0.001	<0.001	<0.002	NA
	7/9/2008	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
	4/11/2008	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
NAPIS-2	11/2/2010	8260	**0.015**	<0.005	<0.001	<0.002	**0.27**
	9/15/2010	8260B	**0.066**	<0.001	0.0083	<0.0015	**0.23**
	6/10/2010	8021B	**0.14**	<0.005	0.0096	<0.001	**0.23**
	3/8/2010	8260B	**0.83**	0.0014	0.016	0.0021	0.25
	11/23/2009	8260B	**0.032**	0.001	0.0093	<0.002	**0.094**
	8/11/2009	8260B	**0.057**	<0.001	0.022	<0.002	**0.089**
	5/28/2009	8260B	**0.028**	<0.005	0.0053	<0.01	**0.13**
	3/24/2009	8260B	**0.019**	0.0011	0.0081	<0.002	**0.09**
	11/10/2008	8260B	**0.025**	<0.001	0.011	<0.002	**0.18**
	9/30/2008	8260B	**0.016**	<0.001	0.0016	0.0041	NA
	7/9/2008	8260B	**0.013**	<0.001	0.011	0.0056	**0.2**
	4/11/2008	8260B	**0.91**	0.019	0.051	0.12	**0.32**
NAPIS-3	11/2/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.0015
	9/15/2010	8021B	0.001	<0.001	<0.001	<0.002	<0.0025
	6/10/2010	8260B	**0.2**	<0.001	0.012	<0.002	**0.08**
	3/8/2010	8260B	**0.072**	<0.001	0.001	<0.002	<0.0025
	11/23/2009	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
	8/31/2009	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
	6/15/2009	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
	3/25/2009	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
	11/10/2008	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
KA-3	11/2/2010	8260B	**0.23**	<0.001	0.014	<0.03	**0.1**
	9/15/2010	8260B	**0.52**	<0.001	0.031	<0.03	**0.11**
	6/10/2010	8021B	<0.001	<0.001	<0.001	<0.002	<0.0025
	3/8/2010	8021B	<0.01	<0.01	<0.01	<0.01	<0.01
	11/23/2009	8260B	<0.001	<0.001	<0.001	<0.002	**0.077**
	8/31/2009	8260B	<0.001	<0.001	<0.001	<0.002	**0.17**
	5/28/2009	8260B	0.0033	0.0012	<0.001	<0.002	**0.13**
	3/25/2009	8260B	<0.001	<0.001	<0.001	<0.002	**0.11**
	7/9/2008	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
	11/10/2008	8260B	<0.001	<0.001	<0.001	<0.002	**0.13**
	9/30/2008	8260B	Not enough water to Sample - Dry				

8.8 NAPIS-1, NAPIS-2, NAPIS-3, KA-3
BTEX Analytical Result Summary

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other Standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES

8.8.1 NAPIS-1, NAPIS-2, NAPIS-3, KA-3
General Chemistry Analytical Result Summary

			Parameters										
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mmhos/cm)	DRO (mg/L)	GRO (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			1.6	250.0	NE	NE	10	NE	600.0	6 TO 9	NE	0.2[1]	NE
40 CFR 141.62 MCL (mg/L)			4.0	NE	NE	1	10	NE	NE	NE	NE	NE	NE
Well ID	DATE SAMPLED	METHOD											
NAPIS-1	11/2/2010	300.0	0.96	200	NL	<2.0	6.9	<0.5	98	NR	NR	<1.0	<0.05
	9/15/2010	300.0	0.5	189	NL	11.2	**11.2**	0.019	65	NR	NR	<1.0	<0.05
	6/8/2010	300.0	0.73	170	2.2	**4**	4	<0.5	56	7.86	1800	<1.0	<0.05
	3/8/2010	300.0	0.75	130	1.7	**2**	2	<0.5	52	NR	NR	<1.0	<0.05
	11/23/2009	300.0	1.4	170	NL	**1.8**	1.8	<0.5	100	7.39	2000	<1.0	<0.05
	8/11/2009	300.0	1.2	160	NL	0.54	0.54	<0.5	93	7.67	1800	<1.0	<0.05
	5/28/2009	300.0	1.2	150	NL	0.31	0.31	<0.5	71	7.82	1900	<1.0	<0.05
	3/24/2009	300.0	0.69	120	NL	<1.0	<1.0	<0.5	38	7.69	2000	<1.0	<0.05
	11/10/2008	300.0	0.73	160	NL	**1.6**	1.6	<0.5	63	7.3	1900	<1.0	<0.05
	9/30/2008	300.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	<0.05
	7/9/2008	300.0	1.4	180	NL	<1.0	<1.0	<0.5	98	7.27	1900	<1.0	<0.05
	4/11/2008	300.0	0.79	170	NL	0.55	0.55	<0.5	<0.5	7.26	2000	<1.0	<0.05
NAPIS-2	11/2/2010	300.0	**1.7**	230	NL	<1.0	<1.0	<0.5	7.80	NR	NR	**5.1**	0.57
	9/15/2010	300.0	1.3	220	NL	<0.5	<0.5	0.01	6.00	NR	NR	**5.3**	1
	6/10/2010	300.0	1.2	**340**	1.2	<1.0	<1.0	<2.5	8.70	7.8	1800	**6.3**	1.3
	3/8/2010	300.0	1.4	**320**	1	<1.0	<1.0	<0.05	11.00	NR	NR	**3.8**	1
	11/23/2009	300.0	**1.6**	220	NL	<1.0	<1.0	<0.05	13	7.16	1500	**2.7**	0.78
	8/11/2009	300.0	**1.7**	**250**	NL	<1.0	<1.0	<0.05	17	7.56	1500	**2.9**	0.62
	5/28/2009	300.0	**1.7**	210	NL	0.16	0.16	<0.05	22	7.51	1400	**3.4**	0.53
	3/24/2009	300.0	1.5	240	NL	<1.0	<1.0	<0.05	23	7.47	1800	**4.3**	0.37
	11/10/2008	300.0	1.4	200	NL	<1.0	<1.0	<0.05	32	7.21	1600	**4**	0.59
	9/30/2008	300.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**3.9**	0.48
	7/9/2008	300.0	1.1	**270**	NL	<1.0	<1.0	<0.5	33	7.18	2000	**2.4**	0.74
	4/11/2008	300.0	0.92	**360**	NL	<1.0	<1.0	<0.5	42	7	2100	**1.5**	2.2
NAPIS-3	11/2/2010	300.0	0.48	**1100**	NL	**18**	**18**	<0.5	430	NR	NR		
	9/15/2010	300.0		**1040**	NL	**24.1**	**24.1**	0.023	290	NR	NR		
	6/10/2010	300.0	1.5	**260**	1.1	<1.0	<1.0	<0.5	39	7.84	1600	1.8	0.89
	3/8/2010	300.0	0.46	**1000**	4.4	**17**	**17**	<0.5	400	NR	NR	<1.0	<0.5
	11/23/2009	300.0	0.49	**1100**	NL	**15**	**15**	<0.5	370	7.91	4400	<1.0	<0.05
	8/31/2009	300.0	0.47	**1000**	NL	**14**	**14**	<0.5	<10	8.07	4000	<1.0	<0.05
	6/15/2009	300.0	0.46	**1200**	NL	**18**	**18**	<0.5	330	8.23	4200	<1.0	<0.05
	3/25/2009	300.0	0.43	**1200**	NL	<1.0	**14**	<0.5	340	8.11	5200	<1.0	<0.05
	11/10/2008	300.0	1.1	**1100**	NL	<1.0	2.6	<0.5	310	8.05	4300	<1.0	<0.05

8.8.1 NAPIS-1, NAPIS-2, NAPIS-3, KA-3
General Chemistry Analytical Result Summary

			Parameters										
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mmhos/cm)	DRO (mg/L)	GRO (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			1.6	250.0	NE	NE	10	NE	600.0	6 TO 9	NE	0.2[1]	NE
40 CFR 141.62 MCL (mg/L)			4.0	NE	NE	1	10	NE	NE	NE	NE	NE	NE
Well ID	**DATE SAMPLED**	**METHOD**											
	9/30/2008	300.0	Water level too shallow for sampling										
	7/9/2008	300.0	0.46	**1100**	NL	9.1	9.1	<0.5	270	8.29	4200	<1.0	<0.05
KA-3	11/2/2010	300.0	**1.7**	**260**	NL	<1.0	<1.0	<5.0	38	NR	NR	**1.7**	0.68
	9/15/2010	300.0	1.4	**277**	NL	<0.5	<0.5	0.013	37	NR	NR	**3**	1.9
	6/10/2010	300.0	0.38	**1100**	4.7	**17**	**17**	<0.05	390	8.21	3600	<1.0	<0.05
	3/8/2010	300.0	**1.6**	**410**	1.5	**5.5**	5.5	<0.05	90	NR	NR	<1.0	0.47
	11/23/2009	300.0	1.3	**610**	NL	**3.2**	3.2	<0.05	120	7.31	2900	<1.0	0.19
	8/31/2009	300.0	**2.4**	230	NL	<2.0	<2.0	<0.05	50	7.58	1500	**1.4**	0.52
	5/28/2009	300.0	**1.6**	**260**	NL	0.22	0.22	<0.05	66	7.71	1700	<1.0	0.32
	3/25/2009	300.0	1.5	**340**	NL	<1.0	0.9	<0.05	76	7.64	2400	<1.0	0.18
	11/10/2008	300.0	0.46	**590**	NL	**2**	**11**	<0.05	140	7.34	2700	<1.0	0.15
	9/30/2008	300.0	Water level too shallow for sampling										

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analyses
NR = Not requested
BOLD values represent values above the applicable standard

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water
[1] NMED Table 2a, TPH Screening Guidelines for Potable Ground Water (GW-1). (Oct 2006)

40 CFR 141.62 Detection limits for Inorganic Contaminants

NOTES

8.8.2 NAPIS-1, NAPIS-2, NAPIS-3, KA-3
Total Metals Analytical Result Summary

			Parameters										
			Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Selenium (mg/L)	Mercury (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**0.05**	**1.0**	**1.0**	**0.05**	**0.2**	**0.05**	**0.002**	**0.03**	**10**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**0.05**	**0.002**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**											
NAPIS-1	11/2/2010	6010B	<0.02	0.26	0.0062	<0.006	6.4	<0.005	0.16	<0.05	<0.0002	**0.045**	0.027
	9/15/2010	6010B	<0.02	0.19	<0.006	<0.006	0.56	<0.005	0.044	<0.05	<0.0002	0.018	<0.02
	6/8/2010	6010B	<0.02	0.18	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	3/8/2010	6020A	<.001	0.133	1.1E-03	2.6E-03	0.548	<0.001	0.0147	<0.001	<0.0001	0.273	4.9E-03
	11/23/2009	6010B	<0.02	0.2	7.7E-03	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	8/11/2009	6010B	<0.02	0.11	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	5/28/2009	6010B	<0.02	0.091	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	3/24/2009	6010B	<0.02	0.1	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
NAPIS-2	11/2/2010	6010B	<0.02	**1.2**	<0.006	<0.006	**4.2**	<0.005	**1.2**	<0.05	<0.0002	NL	<0.02
	9/15/2010	6010B	<0.02	**1.4**	<0.006	<0.006	**4.3**	<0.005	**1.1**	<0.05	<0.0002	<0.001	<0.02
	6/10/2010	6010B	<0.02	**1.7**	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	3/8/2010	6020A	4.6E-03	**2.07**	0.00105	2.5E-03	**4.71**	1.4E-03	**1.25**	<0.001	<0.0001	<0.001	7.1E-03
	11/23/2009	6010B	<0.02	**1.1**	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	8/11/2009	6010B	<0.02	0.94	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	5/28/2009	6010B	<0.02	0.65	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
NAPIS-3	11/2/2010	6010B	<0.02	0.096	0.0075	0.012	**2.6**	0.011	0.12	<0.05	<0.0002	**0.032**	0.59
	9/15/2010	6010B	<0.02	0.11	**0.098**	0.014	**3.9**	0.012	0.15	<0.05	<0.0002	**0.035**	0.36
	6/10/2010	6010B	<0.02	0.54	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	3/8/2010	6020A	0.00158	0.0979	0.00396	0.00319	0.338	0.00123	0.0176	0.00373	<0.0002	**0.0319**	0.00941
	11/23/2009	6010B	<0.02	0.15	0.0072	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	8/31/2009	6010B	<0.02	0.092	<0.01	NL	NL	<0.005	NL	<0.02	<0.0002	NL	NL
	6/15/2009	6010B	<0.02	0.14	<0.01	NL	NL	<0.005	NL	<0.02	<0.0002	NL	NL
	3/25/2009	6010B	<0.02	0.13	<0.01	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
KA-3	11/2/2010	6010B	<0.02	0.6	<0.006	<0.006	**1.2**	<0.005	**1.4**	<0.05	<0.0002	NL	<0.02
	9/15/2010	6010B	<0.02	0.47	**0.096**	<0.006	**1.6**	<0.005	**1.3**	<0.05	<0.0002	0.003	<0.02
	6/10/2010	6010B	<0.02	0.17	0.0064	NL	NL	<0.005	NL	<0.05	<0.0002	NL	<0.02
	3/8/2010	6020A	0.011	0.335	0.00136	0.0114	**2.35**	0.00303	**2.1**	<0.001	<0.0001	0.00652	0.0211
	11/23/2009	6010B	<0.02	0.55	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	8/31/2009	6010B	<0.02	0.22	<0.01	NL	NL	<0.005	NL	<0.02	<0.0002	NL	NL
	5/28/2009	6010B	<0.02	0.29	<0.006	NL	NL	<0.005	NL	<0.05	<0.0002	NL	NL
	3/25/2009	6010B	<0.02	0.22	<0.006	NL	NL	0.0055	NL	<0.05	<0.0002	NL	NL

8.8.2 NAPIS-1, NAPIS-2, NAPIS-3, KA-3
Total Metals Analytical Result Summary

	Parameters										
	Arsenic (mg/L)	Barium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Selenium (mg/L)	Mercury (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)	0.1	1.0	0.05	1.0	1.0	0.05	0.2	0.05	0.002	0.03	10
40 CFR 141.62 MCL (mg/L)	0.01	2.0	0.1	1.3[1]	NE	0.015[1]	NE	0.05	0.002	0.03	NE
Well ID	DATE SAMPLED	METHOD									

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
[1] National Primary Drinking Water Regulation (May 2009); Action Level

NOTES

8.8.3 NAPIS-1, NAPIS-2, NAPIS-3, KA-3
Dissolved Metals Analytical Result Summary

			Parameters													
			Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**NE**	**0.05**	**1.0**	**1.0**	**0.05**	**NE**	**0.2**	**NE**	**0.05**	**NE**	**0.03**	**10.0**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**NE**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**NE**	**NE**	**0.05**	**NE**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**														
NAPIS 1	11/2/2010	6010B	<0.1	0.13	75	<0.006	<0.006	0.057	<0.005	14	0.016	<5.0	<0.25	420	**0.034**	NL
	9/15/2010	6010B	<0.02	0.18	100	<0.006	<0.006	0.29	0.0064	18	0.0066	<1.0	<0.05	370	0.011	NL
	6/8/2010	6010B	<0.2	0.13	72	<0.006	NL	NL	<0.005	13	NL	<1.0	<0.05	370		NL
	3/8/2010	6020A	0.00108	0.139	65.5	<0.001	0.00205	<0.01	<0.001	11.5	<0.001	0.829	1.24E-04	322	0.0279	0.0258
	11/23/2009[2]	6010B		0.2	58	0.0077			<0.005	13		3.7		390		
	8/11/2009[2]	6010B		0.11	56	<0.006			<0.005	11		1.7		380		
	5/28/2009[2]	6010B		0.091	57	<0.006			<0.005	11		<1.0		390		
	3/24/2009[2]	6010B		0.1	67	<0.006			<0.005	12		<1.0		340		
	11/10/2008	6010B		0.13	78	<0.006			<0.005	14		1.2		390		
	9/30/2008	6010B		NA	NA	NA				NA		NA		NA		
	7/9/2008	6010B			70					12		2.1		430		
	4/11/2008	6010B			72					13		1.5		370		
NAPIS-2	11/2/2010	6010B	<0.1	**1.4**	73	<0.006	<0.006	**2.9**	<0.005	14	**1.2**	<1.0	<0.05	320	NL	NL
	9/15/2010	6010B	<0.02	**1.5**	69	<0.006	<0.006	**3.7**	<0.005	13	1	<1.0	<0.05	310	<0.001	NL
	6/10/2010	6010B	<0.02	**1.7**	80	<0.006	NL	NL	<0.005	16	NL	<1.0	<0.05	320	NL	NL
	3/8/2010	6020A	0.00473	**1.73**	85	<0.001	<0.001	3.82	<0.001	15.7	**1.06**	0.278	<0.001	319	<0.001	0.0531
	11/23/2009[2]	6010B		**1.1**	56	<0.006			<0.005	11		<1.0		350		
	8/11/2009[2]	6010B		0.94	57	<0.006			<0.005	11		<1.0		300		
	5/28/2009[2]	6010B		0.65	51	<0.006			<0.005	9.9		<1.0		290		
	3/24/2009[2]	6010B		0.76	53	<0.006			<0.005	10		<1.0		280		
	11/10/2008	6010B		0.42	65					50		0.0065		9.7		
	9/30/2008	6010B			70					13		<1.0		360		
	4/11/2008	6010B			110					19		1.3		380		
NAPIS-3	11/2/2010	6010B	<0.02	0.081	42	<0.006	<0.006	0.025	<0.005	7	0.01	4.2	<0.05	990	**0.035**	NL
	9/15/2010	6010B	<0.02	0.066	39	<0.006	<0.006	0.021	<0.005	6.3	0.0021	3.9	<0.05	910	**0.032**	NL
	6/10/2010	6010B	<0.02	0.62	87	<0.006	NL	NL	<0.005	15	NL	<1.0	<0.05	260	NL	NL
	3/8/2010	6020A	0.00312	0.0641	41.5	0.00271	0.00222	<0.01	<0.001	6.8	0.00138	4.49	0.00364	835	0.0296	0.034
	11/23/2009[2]	6010B		0.15	46	0.0072			<0.005	8.8		5.4		930		
	8/11/2009[2]	6010B		0.092	39	<0.01			<0.005	6.4		4		870		
	6/15/2009[2]	6010B		0.14	49	<0.01			<0.005	6.8		4.2		840		
	3/24/2009[2]	6010B		0.13	47	<0.006			<0.005	6.5		3.9		880		
	11/10/2008	6010B			41					6.6		4.4		860		
	9/30/2008	6010B	Not enough water to sample													
	7/9/2008	6010b			65					7.8		4.1		910		
KA-3	11/2/2010	6010B	<0.1	0.62	81	<0.006	<0.006	0.32	<0.005	14	**1.4**	<1.0	<0.05	330	NL	NL
	9/15/2010	6010B	<0.02	0.47	68	<0.006	<0.006	0.56	<0.005	11	**1.2**	<1.0	<0.05	260	0.001	NL

8.8.3 NAPIS-1, NAPIS-2, NAPIS-3, KA-3
Dissolved Metals Analytical Result Summary

			Parameters												
			Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**NE**	**0.05**	**1.0**	**1.0**	**0.05**	**NE**	**0.2**	**NE**	**0.05**	**NE**	**0.03**	**10.0**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**NE**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**NE**	**NE**	**0.05**	**NE**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**														
	6/10/2010	6010B	<0.02	0.078	38	<0.006	NL	NL	<0.005	6.5	NL	4.1	<0.05	NL	NL	NL
	3/8/2010	6020A	0.00976	0.344	96.2	<0.001	0.00428	**1.55**	<0.001	15.6	**1.86**	1.2	0.00102	385	0.00696	0.0382
	11/23/2009[2]	6010B		0.55	100	<0.006			<0.005	19		2		480		
	8/11/2009[2]	6010B		0.22	53	<0.01			<0.005	8.9		0.73		330		
	5/28/2009[2]	6010B		0.29	71	<0.006			<0.005	11		<1.0		330		
	3/25/2009[2]	6010B		0.22	67	<0.006			<0.005	10		<1.0		360		

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
[1]National Primary Drinking Water Regulation (May 2009), Action Level

NOTES
[2]*2009 Method 6010B Total Recoverable Metals Analysis run*

8.8.4 NAPIS-1, NAPIS-2, NAPIS-3, KA-3
Volatile and Semi-Volatile Organic Result Summary

			Parameters									
			Acenaphthene (mg/L)	Aniline (mg/L)	Benz(a)anthracene (mg/L)	Bis(2-ethylhexyl)phthalate (mg/L)	Fluorene (mg/L)	1-Methylnaphthalene (mg/L)	2-Methylnaphthalene (mg/L)	2-Methylphenol (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
40 CFR 141.62 MCL (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			2.2	NE	2.9E-05	0.0048	1.5	0.0023	0.15	NE	1.4E-04	NE
Well ID	**DATE SAMPLED**	**METHOD**										
NAPIS 1	11/2/2010	8270C	<0.01	<0.01	<0.01	<0.01	<0.01	NL	<0.01	<0.01	<0.01	<0.01
	9/15/2010	8270C	<0.01	<0.01	<0.01	<0.01	<0.01	NL	<0.01	<0.01	<0.1	<0.01
	6/8/2010	8310	<0.0025	NL	NL	NL	<0.0008	<0.002	<0.002	NL	<0.002	<0.0006
	3/8/2010	8270C/8260B	<0.01	<0.01	<0.01	<0.01	<0.01	NL	<0.01	<0.01	<0.01	<0.01
	11/23/2009	8310	NL	NL	<0.00007	NL	<0.0008	<0.002	<0.002	NL	<0.002	<0.006
	8/11/2009	8310	NL	NL	<0.00007	NL	<0.0008	<0.002	<0.002	NL	<0.002	<0.006
	5/28/2009	8310	NL	NL	<0.00007	NL	<0.0008	<0.002	<0.002	NL	<0.002	<0.006
	3/24/2009	8310	NL	NL	<0.00007	NL	<0.0008	<0.002	<0.002	NL	<0.002	<0.006
NAPIS 2	11/2/2010	8270C	0.01	<0.01	<0.01	<0.01	0.011	NL	<0.01	<0.01	<0.01	<0.01
	9/15/2010	8270C	<0.01	<0.01	<0.01	<0.01	<0.05	NL	<0.01	<0.01	<0.01	<0.01
	6/10/2010	8310	<0.0025	NL	<0.00007	NL	0.011	**0.033**	<0.002	NL	**0.089**	0.005
	3/8/2010	8270C	<0.05	<0.05	<0.05	<0.05	<0.05	NL	<0.05	<0.05	**0.0036**	<0.05
	11/23/2009	8310	NL	NL	<0.00007	NL	0.009	<0.002	<0.002	NL	**0.046**	0.0017
	8/11/2009	8310	NL	NL	<0.00007	NL	0.0073	<0.002	<0.002	NL	<0.002	0.0037
	5/28/2009	8310	NL	NL	<0.00007	NL	<0.0008	0.0042	0.0023	NL	**0.03**	<0.006
	3/24/2009	8310	NL	NL	<0.00014	NL	<0.0016	<0.004	<0.004	NL	<0.004	<0.00012
	11/10/2008	8310					0.0010	<0.002	<0.002		<0.002	<0.006
NAPIS 3	11/2/2010	8270C	<0.01	<0.01	<0.01	<0.01	<0.01	NL	<0.01	<0.01	<0.01	<0.01
	9/15/2010	8270C	<0.01	<0.01	<0.01	<0.01	<0.01	NL	<0.01	<0.01	<0.01	<0.01
	6/10/2010	8310	<0.005	NL	NL	NL	0.0049	**0.05**	<0.002	NL	**0.045**	0.0045
	3/8/2010	8270C	<0.01	<0.01	<0.01	<0.01	<0.01	NL	<0.01	<0.01	<0.01	<0.01
	11/23/2009	8310	NL	NL	<0.00007	NL	<0.0008	<0.002	<0.002	NL	<0.002	<0.006
	8/31/2009	8310	NL	NL	<0.00007	NL	<0.0008	<0.002	<0.002	NL	<0.002	<0.006
	6/15/2009	8310	NL	NL	<0.00007	NL	<0.0008	<0.002	<0.002	NL	<0.002	<0.006
	3/25/2009	8310	NL	NL	<0.00007	NL	<0.0008	<0.002	<0.002	NL	<0.002	<0.006
KA-3	11/2/2010	8270C	<0.01	<0.01	<0.01	<0.01	<0.01	NL	<0.01	<0.01	**0.013**	<0.01
	9/15/2010	8260B/8270C	<0.01	<0.01	<0.01	<0.01	<0.01	NL	<0.01	<0.01	**0.011**	<0.01
	6/10/2010	8310	<0.005	NL	<0.00007	NL	0.0008	<0.002	<0.002	0.0045	<0.002	<0.0006
	3/8/2010	8270C	<0.01	<0.01	<0.01	<0.01	<0.01	NL	<0.01	<0.01	<0.01	<0.01
	11/23/2009	8310	NL	NL	0.00007	NL	0.0029	**0.022**	<0.002	NL	**0.033**	0.0025
	8/31/2009	8310	NL	NL	<0.00007	NL	<0.0008	<0.002	<0.002	NL	<0.002	<0.006
	5/28/2009	8310	NL	NL	<0.00007	NL	<0.0008	<0.002	<0.002	NL	**0.047**	<0.006
	3/25/2009	8310	NL	NL	<0.00007	NL	<0.0008	<0.002	<0.002	NL	<0.002	<0.0006

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STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES

8.9 BOILER WATER TO EVAP. POND-2 (BW to EP-2)
General Chemistry Analytical Result Summary

			Parameters								
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			1.6	250.0	NE	NE	10	NE	600.0	6 to 9	NE
40 CFR 141.62 MCL (mg/L)			4.0	NE	NE	1	10	NE	NE	NE	NE
Well ID	**DATE SAMPLED**	**METHOD**									
BW to EP-2	11/16/2010	300.0	<0.2	**53000**	<5.0	<200	<200	<25	**1200**	NR	NR
	6/28/2010	300.0	0.27	71	<0.1	<0.1	<0.1	<0.5	500	7.89	1600
	4/20/2010	300.0	0.64	68	0.24	<0.1	0.31	<0.5	**1400**	NR	NR
	10/27/2009	300.0	0.39	37	1.3	0.12	0.12	<0.5	**630**	8.35	1900
	5/6/2009	300.0	0.9	45	0.24	<1.0	0.65	<0.5	**1500**	8.01	4200
	6/17/2008	300.0	1.3	6.7	NL	<0.1	<1.0	<0.5	**2600**	7.9	6500

DEFINITIONS
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NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES

8.9.1 BOILER WATER TO EVAP. POND 2 (BW to EP-2)
Major Cations and Anions Analytical Result Summary

			Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE
40 CFR 141.62 MCL (mg/L)			NE	NE	NE	NE
Well ID	**DATE SAMPLED**	**METHOD**				
BW to EP-2	11/16/2010	6010B[2]	1600	250	130	26000
	6/28/2010	6010B[2]	1.7	<1.0	2.1	380
	4/20/2010	6010B[2]	2.5	<1.0	15	970
	10/27/2009	6010B[2]	0.8	<0.5	4.6	480
	5/6/2009	6010B[2]	1.1	<0.5	4.9	1200
	6/17/2008	6010B	1.9	<0.5	15	1900

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
[1] National Primary Drinking Water Regulation (May 2009); Action Level

NOTES
[2] *Method 6010B Total Recoverable Metals analysis run*

8.10 Evaporation Ponds (EP-1 thru EP-12B)
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			**0.01**	**0.75**	**0.75**	**0.62**	**NE**
40 CFR 141.62 MCL			**0.005**	**1**	**0.7**	**10**	**NE**
EPA RSL for Tap Water (June 2011)			**4.1E-04**	**2.3**	**0.0015**	**0.2**	**0.012**
Well ID	**DATE SAMPLED**	**METHOD**					
EP-1	11/16/2010	8260B	<0.001	<0.001	<0.001	0.0078	<0.0015
	8/2/2010	8260B	<0.001	0.0077	<0.001	<0.0015	<0.001
	4/20/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	6/17/2009	8260B	<0.001	0.024	**0.0052**	0.044	<0.001
	12/2/2008	8260B	**0.0083**	0.089	**0.033**	**0.26**	<0.001
	9/19/2008	8260B	**0.0033**	0.0058	**0.0026**	0.02	<0.001
	6/17/2008	8260B	<0.001	0.0056	**0.0016**	0.012	<0.001
	3/11/2008	8260B	**0.19**	0.47	**0.0087**	**0.54**	0.0059
	11/29/2007	8260B	**0.064**	0.23	**0.048**	**0.31**	<0.001
EP-2	11/16/2010	8260B	<0.001	0.003	**0.0019**	0.015	<0.0015
	8/2/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	4/20/2010	8260B	<0.001	0.0013	<0.001	0.0043	<0.001
	6/17/2009	8260B	<0.001	0.015	<0.001	0.037	<0.001
	12/2/2008	8260B	**0.0018**	0.02	**0.0072**	0.057	<0.001
	9/19/2008	8260B	<0.001	0.0011	<0.001	0.0044	<0.01
	6/17/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.01
	3/11/2008	8260B	**0.0038**	0.011	**0.0021**	0.014	<0.01
	11/29/2007	8260B	**0.021**	0.079	**0.02**	0.13	<0.01
EP-3	11/16/2010	8260B	<0.001	0.0012	<0.001	0.0057	<0.0015
	8/2/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	4/20/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	6/17/2009	8260B	<0.001	<0.001	<0.001	0.0017	<0.001
	12/2/2008	8260B	**0.0011**	0.012	**0.0043**	0.034	<0.001
	9/19/2008	8260B	<0.01	<0.01	<0.01	<0.015	<0.01
	6/17/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	3/11/2008	8260B	<0.001	0.0019	<0.001	0.004	<0.001
	11/29/2007	8260B	<0.01	0.025	<0.01	0.038	<0.01
EP-4	11/16/2010	8260B	<0.001	<0.001	<0.001	<0.003	<0.0015
	8/2/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	4/20/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	6/17/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	12/2/2008	8260B	<0.001	0.008	**0.0029**	0.022	<0.001
	9/19/2008	8260B	<0.01	<0.01	<0.01	<0.015	<0.01
	6/17/2008	8260B	<0.01	<0.01	<0.01	<0.015	<0.01
	3/11/2008	8260B	<0.01	<0.01	<0.01	<0.015	<0.01
	11/29/2007	8260B	<0.01	0.011	<0.01	<0.015	<0.01
EP-5	11/16/2010	8260B	<0.001	<0.001	<0.001	<0.003	<0.001
	8/2/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	4/20/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	6/17/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	12/2/2008	8260B	<0.001	0.0026	0.001	0.0072	<0.001
	9/19/2008	8260B	<0.01	<0.01	<0.01	<0.015	<0.01
	6/17/2008	8260B	<0.01	<0.01	<0.01	<0.015	<0.01
	3/11/2008	8260B	<0.01	<0.01	<0.01	<0.015	<0.01
	11/29/2007	8260B	<0.01	<0.01	<0.01	<0.015	<0.01

8.10 Evaporation Ponds (EP-1 thru EP-12B)
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			0.01	0.75	0.75	0.62	NE
40 CFR 141.62 MCL			0.005	1	0.7	10	NE
EPA RSL for Tap Water (June 2011)			4.1E-04	2.3	0.0015	0.2	0.012
Well ID	DATE SAMPLED	METHOD					

STANDARDS

WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES

[1] *EP-9, 11, 12A and 12B are additions to the Facility Wide Monitoring Plan approved August 25, 2010 Technician used the unapproved Plan at beginning of 2010 as the sampling schedule*

8.10.1 Evaporation Ponds (1 thru 12B)
General Chemistry Analytical Result Summary

			Parameters								
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			1.6	250.0	NE	NE	10	NE	600.0	6.6 to 8.6[1]	NE
40 CFR 141.62 MCL (mg/L)			4.0	NE	NE	1	10	NE	NE	NE	NE
Well ID	DATE SAMPLED	METHOD									
EP-1	11/16/2010	300.0	350	140	1.2	4.8	4.8	<2.5	1000	7.4	4300
	8/2/2010	300.0	99	310	<2.0	<4.0	<4.0	<10	870	7.68	3700
	4/20/2010	300.0	340	330	<5.0	<1.0	<1.0	<5.0	1500	8.36	5400
	6/17/2009	300.0	86	820	NL	<1.0	<1.0	<5.0	580	7.73	4400
	12/2/2008	300.0	110	360	NL	<1.0	<1.0	7.2	780	7.76	4400
	9/9/2008	300.0	99	150	NL	<1.0	<1.0	<5.0	7700	7.82	4500
	6/17/2008	300.0	120	120	NL	<1.0	<1.0	15	1100	7.57	4600
	3/11/2008	300.0	560	540	NL	<1.0	<1.0	<2.5	980	3.81	4900
EP-2	11/16/2010	300.0	41	3500	1.8	<10	<10	<2.5	970	7.38	14000
	8/2/2010	300.0	43	1600	<1.0	<4.0	<4.0	<2.5	970	7.91	6400
	4/20/2010	300.0	170	1100	2.3	<2.0	<0.5	<2.5	1200	7.56	5800
	6/17/2009	300.0	52	3500	NL	<2.1	<0.6	<2.5	1000	8.13	13000
	12/2/2008	300.0	37	1800	NL	<2.2	<0.7	<2.5	1000	7.8	8500
	9/9/2008	300.0	48	2800	NL	<1.0	<1.0	<2.5	960	7.97	10000
	6/17/2008	300.0	63	2900	NL	<1.0	<1.0	<2.5	1300	7.9	11000
	3/11/2008	300.0	63	2200	NL	<1.0	<1.0	<2.5	970	6.81	8400
EP-3	11/16/2010	300.0	11	5100	1.4	<200	<200	<2.5	1000	7.66	16000
	8/2/2010	300.0	41	2800	1.2	<10	<10	<5.0	1100	7.76	9000
	4/20/2010	300.0	63	8400	<10	<40	<40	<2.5	1100	8.11	32000
	6/17/2009	300.0	48	3600	NL	<4.0	<4.0	<2.5	1100	8.13	14000
	12/2/2008	300.0	26	1800	NL	<2.0	<0.5	<2.5	980	7.86	8500
	9/9/2008	300.0	51	2800	NL	<1.0	<1.0	<5.0	1100	7.94	10000
	6/17/2008	300.0	44	3700	NL	<1.0	<1.0	<2.5	1400	7.91	13000
	3/11/2008	300.0	41	2700	NL	<1.0	<1.0	<2.5	1000	7.86	9800
EP-4	11/16/2010	300.0	22	4500	2	<20	<20	<2.5	1100	7.81	18000
	8/2/2010	300.0	35	2500	1.3	<10	<10	<2.5	1100	7.89	8700
	4/20/2010	300.0	67	8000	<2.0	<40	<40	<2.5	1000	8.05	26000
	6/17/2009	300.0	46	3400	NL	<4.0	<4.0	<2.5	1200	8.12	13000
	12/2/2008	300.0	27	2000	NL	<2.0	<0.5	<2.5	1000	7.89	9100
	9/9/2008	300.0	49	2900	NL	<1.0	<1.0	<5.0	1100	7.9	11000

8.10.1 Evaporation Ponds (1 thru 12B)
General Chemistry Analytical Result Summary

			Parameters								
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			*1.6*	*250.0*	*NE*	*NE*	*10*	*NE*	*600.0*	*6.6 to 8.6'*	*NE*
40 CFR 141.62 MCL (mg/L)			4.0	NE	NE	1	10	NE	NE	NE	NE
Well ID	DATE SAMPLED	METHOD									
	6/17/2008	300.0	34	4500	NL	<1.0	<1.0	<2.5	1500	7.94	15000
	3/11/2008	300.0	32	2800	NL	<1.0	<1.0	<2.5	1000	8.06	10000
EP-5	11/16/2010	300.0	20	4200	2.1	<20	<20	<2.5	1200	7.86	18000
	8/2/2010	300.0	39	4800	2	<10	<10	<2.5	1300	7.97	20000
	4/20/2010	300.0	53	12000	<10	<40	<40	<2.5	1100	8.04	40000
	6/17/2009	300.0	32	4400	NL	<4.0	<4.0	<2.5	1400	8.07	17000
	12/2/2008	300.0	29	2900	NL	<2.0	<0.5	<2.5	1200	7.82	14000
	9/9/2008	300.0	33	3000	NL	<1.0	<1.0	<5.0	890	7.93	10000
	6/17/2008	300.0	26	5400	NL	<1.0	<1.0	<2.5	1800	7.86	17000
	3/11/2008	300.0	41	2900	NL	<1.0	<1.0	<2.5	1100	7.82	10000
EP-6	11/16/2010	300.0	25	6300	2.4	<20	<20	<2.5	1500	774	21000
	8/2/2010	300.0	21	7400	2.1	<40	<40	<2.5	1500	8.33	27000
	4/20/2010	300.0	29	4000	<10	<2.0	<2.0	<10	1100	7.66	8400
	6/17/2009	300.0	18	5100	NL	<4.0	<4.0	<10	1800	8.07	16000
	12/2/2008	300.0	28	5500	NL	<2.0	<0.5	<10	7600	7.7	19000
	9/9/2008	300.0	26	4900	NL	<4.0	<4.0	<5.0	1900	7.83	16000
	6/17/2008	300.0	29	6600	NL	<2.0	<0.5	<5.0	2600	7.64	25000
	3/11/2008	300.0	35	4100	NL	<4.0	<4.0	<5.0	1600	7.7	13000
EP-7	11/16/2010	300.0	35	35000	20	<200	<200	<10	8400	7.85	84000
	8/2/2010	300.0	18	62000	27	<200	<200	<10	11000	7.41	180000
	4/20/2010	300.0	16	27000	54	<200	<50	<10	6900	7.31	150000
	6/17/2009	300.0	20	39000	NL	<10	<10	<10	10000	7.59	130000
	12/2/2008	300.0	35	42000	NL	<40	<40	<10	8300	7.55	140000
	9/9/2008	300.0	25	38000	NL	<4.0	<4.0	<5.0	8500	7.52	110000
	6/17/2008	300.0	29	64000	NL	<2.0	<0.5	<5.0	15000	7.34	180000
	3/11/2008	300.0	22	22000	NL	<4.0	<4.0	<5.0	5600	7.61	68000
EP-8	11/16/2010	300.0	44	81000	57	<200	<200	<10	12000	7.14	190000
	8/2/2010	300.0	43	110000	78	<100	<100	<10	22000	6.21	300000
	4/20/2010	300.0	46	49000	54	<200	<200	<10	6900	7.31	150000
	6/17/2009	300.0	57	180000	NL	<10	<10	<10	23000	6.73	310000
	12/2/2008	300.0	31	46000	NL	<40	<40	<10	8600	7.39	170000

8.10.1 Evaporation Ponds (1 thru 12B)
General Chemistry Analytical Result Summary

			Parameters								
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**1.6**	**250.0**	**NE**	**NE**	**10**	**NE**	**600.0**	**6.6 to 8.6[1]**	**NE**
40 CFR 141.62 MCL (mg/L)			**4.0**	**NE**	**NE**	**1**	**10**	**NE**	**NE**	**NE**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**									
	9/9/2008	300.0	26	17000	NL	<20	<20	<5.0	3400	7.75	51000
	6/17/2008	300.0	94	160000	NL	<10	<10	<5.0	20000	6.28	420000
	3/11/2008	300.0	25	3000	NL	<40	<40	<5.0	6100	7.47	94000
EP-9[2]	11/16/2010	300.0	21	76000	32	<200	<200	<10	8700	7.31	200000
	4/20/2010	300.0	20	38000	14	<200	<200	<10	5000	7.58	120000
EP-11[2]	11/16/2010	300.0	28	14000	5.9	<40	<40	<5.0	3300	7.86	47000
	4/20/2010	300.0	18	17000	6.9	<100	<100	<10	4400	7.73	62000
EP-12A[2]	11/16/2010	300.0	21	11000	4.5	<40	<40	<10	3100	8.07	39000
	4/20/2010	300.0	29	6400	<20	<20	<20	<25	1300	7.89	20000
EP-12B[2]	11/16/2010	300.0	22	6100	3	<20	<20	<5.0	1700	7.74	22000
	4/20/2010	300.0	80	5000	<1.0	<5.0	<5.0	<25	950	8.06	9400

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water
[1] NMAC 20.6.2.2101A General Requirements

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES
[2] *EP-9, EP-11, EP-12A, EP-12B are additions to the Facility Wide Monitoring Plan approved August 25, 2010*

8.10.2 Evaporation Ponds (EP-1 thru EP-12B) BOD/COD, E-COLI Analytical Result Summary

			Parameters			
			BOD (mg/L)	COD (mg/L)	E-Coli (CFU/100ml)	Total Coliform (CFU/100ml)
WQCC 20NMAC 6.2.3103 (mg/L)						
Well ID	DATE SAMPLED	METHOD				
EP-6	11/17/2010	SM9223B/3014	<1200	168	8.6	NL
	8/2-3/2010	SM5210B/E410.4	15	172	1892	NL
	4/21/2010	SM5210B/E410.5	54.8	290	1	>2419.6
	6/17/2009	SM5210B/E410.4	<60	126	Absent	Present
	12/2/2008	SM5210B/E410.4	ND	ND	17.3	NL
	9/9/2008	SM5210B/E410.4	47	949	90.9	NL
	6/17/2008	SM5210B/E410.4	<128	723	ND	ND
	3/11/2008	SM5210B/E410.4	126	847	Present	NL
EP-7	11/17/2010	SM9223B/3014	380	920	<1	NL
	8/2-3/2010	SM5210B/E410.4/3014	5	870	<1	NL
	4/21/2010	SM5210B/E410.4/3014	<60.0	1010	<1	96
	6/17/2009	SM5210B/E410.4/3014	<60	720	Absent	Present
	12/2/2008	SM5210B/E410.4/3014	ND	ND	<1	NL
	9/9/2008	SM5210B/E410.4/3014	47.8	3330	24.9	NL
	6/17/2008	SM5210B/E410.4/3014	17.7	4340	ND	ND
	3/11/2008	SM5210B/E410.4/3014	15.7	2118	Absent	NL
EP-8	11/17/2010	SM9223B/3014	400	1720	<1	NL
	8/2-3/2010	SM5210B/E410.4/3014	5	2520	<1	<1
	4/21/2010	SM5210B/E410.4/3014	14.3	776	<1	2
	6/17/2009	SM5210B/E410.4/3014	<60.0	2160	Absent	Present
	12/2/2008	SM5210B/E410.4/3014	ND	ND	<1	NL
	9/9/2008	SM5210B/E410.4/3014	<16.0	3080	102	NL
	6/17/2008	SM5210B/E410.4/3014	8.2	16100	ND	ND
	3/11/2008	SM5210B/E410.4/3014	17.4	1770	Absent	NL
EP-9[1]	11/17/2010	SM9223B/3014	350	1240	<1	NL
	4/21/2010		<60.0	760	<1	85.5
EP-11[1]	11/17/2010	SM9223B/3014	350	460	4.1	NL
	4/21/2010		<60.0	492	<1	71.9
EP-12A[1]	11/17/2010	SM9223B/3014	330	300	64.4	NL
	4/21/2010		87.3	675	47.6	>2419.6
EP-12B[1]	11/17/2010	SM9223B/3014	350	280	12	NL
	4/21/2010		342	1070	1540.2	>2419.6

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
ND = Data Unavailable
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/L TDS Concentrations or Less.

NOTES
[1] *EP-9, 11, 12A and 12B are additions to the Facility Wide Monitoring Plan approved August 25, 2010 Technician used the unapproved Plan at beginning of 2010 as the sampling schedule*

8.10.3 Evaporation Ponds (EP-1 thru EP-12B)
Total Metals Analytical Result Summary

			Parameters															
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Mercury (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**0.01**	**NE**	**0.05**	**1.0**	**1.0**	**0.05**	**NE**	**0.2**	**NE**	**0.05**	**0.05**	**NE**	**0.002**	**0.03**	**10**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**0.005**	**NE**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**NE**	**NE**	**0.05**	**NE**	**NE**	**0.002**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**																	
	9/9/2008	6010B	<0.02	0.14	<0.002	220	<0.006	<0.006	NL	<0.005	82	0.17	70	<0.25	<0.005	2000	<0.0002	1.42E-03	<0.02
EP-6	11/16/2010	6010B	<0.1	0.14	<0.01	NL	0.04	<0.03	<0.03	<0.025	NL	0.33	NL	<0.25	<0.025	NL	<0.0002	0.001	<0.1
	8/2/2010	6010B	<0.2	<0.2	<0.02	NL	<0.06	<0.06	<0.5	<0.05	NL	4.8	NL	<0.5	<0.05	NL	<0.0002	<0.001	<0.5
	4/20/2010	6010B	<0.02	0.064	<0.002	310	<0.006	<0.006	0.67	<0.005	0.89	0.4	71	<0.05	<0.05	2800	<0.0002	1.85E-03	<0.05
	6/17/2009	6010B	0.015	<0.1	<0.01	450	<0.05	<0.01	0.2	<0.05	131	0.31	94.3	0.005	<0.01	3380	<0.001	0.002	<0.01
	12/2/2008	6010B	0.024	0.12	NL	370	<0.01	<0.02	0.3	<0.005	130	0.48	160	<0.02	<0.01	3700	<0.0002	0.002	<0.03
	9/9/2008	6010B	<0.02	0.11	<0.002	330	<0.006	<0.006	NL	<0.005	130	0.46	130	<0.25	<0.005	3300	<0.0002	1.25E-03	<0.02
EP-7	1/16/2010	6010B	<0.2	<0.2	<0.02	NL	<0.06	<0.06	0.83	<0.05	NL	3.3	NL	<0.5	<0.05	NL	<0.0002	0.003	<0.2
	8/2/2010	6010B	<1.0	<1.0	<0.1	NL	<0.3	<0.3	<2.5	<0.25	NL	3.9	NL	<2.5	<0.25	NL	<0.0002	NL	<2.5
	4/20/2010	6010B	0.1	<0.2	<0.01	930	<0.03	<0.03	0.28	<0.025	620	2.7	660	<0.25	<0.025	15000	<0.0002	2.25E-03	<0.25
	6/17/2009	6010B	0.055	0.1	<0.01	1300	<0.05	0.03	0.14	0.08	944	4.44	401	0.033	<0.01	27300	<0.001	0.003	<0.02
	12/2/2008	6010B	<0.01	0.14	<0.02	820	<0.05	<0.1	<0.5	<0.25	1000	1.8	1500	<0.1	<0.05	28000	<0.0002	0.002	<0.15
	9/9/2008	6010B	<0.20	0.11	<0.02	730	<0.006	<0.006	NL	<0.05	960	5.8	1100	<0.5	<0.05	28000	<0.0002	1.03E-03	<0.02
EP-8	11/16/2010	6010B	<0.4	<0.4	<0.04	NL	<0.12	<0.12	<1.0	<0.025	NL	<1.0	NL	<1.0	<0.01	NL	<0.0002	0.003	<0.4
	8/2/2010	6010B	<1.0	<1.0	<0.1	NL	<0.3	<0.3	<2.5	<0.25	NL	24	NL	<2.5	<0.25	NL	<0.0002	NL	<2.5
	4/20/2010	6010B	0.17	0.13	<0.01	680	<0.03	<0.03	0.62	<0.025	1500	9.6	2000	<0.25	<0.025	27000	<0.0002	2.27E-03	<0.25
	6/17/2009	6010B	0.384	0.2	<0.01	1120	<0.05	0.27	0.3	<0.05	4050	28	2130	0.224	<0.01	67500	<0.001	0.004	0.13
	12/2/2008	6010B	0.13	0.15	<0.01	830	<0.05	<0.1	<0.5	<0.025	1400	5.5	2300	<0.1	<0.05	33000	<0.001	0.002	<0.15
	9/9/2008	6010B	<0.1	0.12	<0.01	530	<0.03	<0.03	NL	<0.025	43	2.4	800	<0.25	<0.025	9500	<0.001	0.00148	<0.01
EP-9	11/16/2010	6010B	<0.4	<0.4	<0.04	NL	<0.12	<0.12	<1.0	<0.1	NL	6.7	NL	<1.0	<0.1	NL	<0.0002	0.003	<0.4
	4/20/2010	6010B	<0.1	0.14	<0.01	890	<0.03	<0.03	0.62	<0.025	790	29	870	<0.25	<0.025	24000	<0.0002	2.20E-03	<0.25
EP-11	11/16/2010	6010B	<0.1	0.14	<0.01	NL	0.35	<0.03	1.3	<0.025	NL	0.88	NL	<0.25	<0.025	NL	<0.0002	0.002	<0.1
	4/20/2010	6010B	<0.1	<0.1	<0.01	710	<0.03	<0.03	0.42	<0.025	420	1.6	360	<0.25	<0.025	9900	<0.0002	1.97E-03	<0.25
EP-12A	11/16/2010	6010B	<0.1	<0.1	<0.01	NL	<0.03	<0.03	1.1	<0.025	NL	0.4	NL	<0.25	<0.025	NL	<0.0002	0.002	<0.1
	4/20/2010	6010B	<0.1	<0.1	<0.01	350	<0.03	<0.03	0.92	<0.025	110	0.28	130	<0.25	<0.025	3900	<0.0002	1.75E-03	<0.25
Pond 12B	11/16/2010	6010B	<0.1	<0.1	<0.01	NL	<0.03	<0.03	0.84	<0.025	NL	0.15	NL	<0.25	<0.025	NL	<0.0002	<0.001	<0.25
	4/20/2010	6010B	<0.1	<0.1	<0.01	320	<0.03	<0.03	4.2	<0.025	83	0.35	150	<0.25	<0.025	3100	<0.0002	2.91E-03	<0.25

8.10.3 Evaporation Ponds (EP-1 thru EP-12B)
Total Metals Analytical Result Summary

			Parameters															
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Mercury (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			0.1	1.0	0.01	NE	0.05	1.0	1.0	0.05	NE	0.2	NE	0.05	0.05	NE	0.002	0.03	10
40 CFR 141.62 MCL (mg/L)			0.01	2.0	0.005	NE	0.1	1.3[1]	NE	0.015[1]	NE	NE	NE	0.05	NE	NE	0.002	0.03	NE
Well ID	DATE SAMPLED	METHOD																

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
1. National Secondary Drinking Water Regulation (May 2009); Action Level

NOTES

8.10.4 Evaporation Ponds (EP-1 thru EP-12B)
Dissolved Metals Analytical Result Summary

			Parameters													
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6 2.3103 (mg/L)			0.1	1.0	0.01	NE	0.05	1.0	1.0	0.05	0.2	NE	0.05	0.05	NE	0.03	10.0
40 CFR 141.62 MCL (mg/L)			0.01	2.0	0.005	NE	0.1	1.3[1]	NE	0.015[1]	NE	NE	0.05	NE	NE	0.03	NE
Well ID	DATE SAMPLED	METHOD															
EP-1	11/16/2010	6010B	<0.1	<0.1	<0.1	12	<0.03	<0.03	4.3	<0.025	0.15	72	<0.25	<0.025	580	<0.001	<0.25
	8/2/2010	6010B	<0.02	0.072	<0.002	NL	0.013	<0.006	2.5	<0.005	0.36	NL	<0.05	<0.025	NL	<0.001	0.096
	4/20/2010	6010B	<0.02	0.085	<0.002	31	0.019	0.0091	29	<0.005	0.24	70	0.066	<0.005	1500	0.00442	0.28
EP-2	11/16/2010	6010B	<0.1	<0.1	<0.01	150	<0.03	<0.03	0.71	<0.025	0.18	65	<0.25	<0.025	2100	<0.001	<0.25
	8/2/2010	6010B	<0.1	<0.1	<0.01	NL	<0.03	<0.03	2.2	<0.025	0.27	NL	<0.25	<0.025	NL	<0.001	<0.25
	4/20/2010	6010B	<0.02	0.057	<0.002	130	0.013	<0.006	9.7	<0.005	0.34	100	<0.25	<0.005	1700	0.0046	0.12
EP-3	11/16/2010	6010B	<0.1	<0.1	<0.01	160	<0.03	<0.03	0.24	<0.025	0.15	71	<0.25	<0.025	2300	<0.001	<0.25
	8/2/2010	6010B	<0.1	0.12	<0.002	NL	0.0093	<0.006	1.8	<0.005	0.37	NL	<0.05	<0.005	NL	<0.001	<0.05
	4/20/2010	6010B	<0.1	<0.1	<0.01	590	<0.03	<0.03	0.88	<0.025	0.42	170	<0.25	<0.005	5100	0.00258	<0.25
EP-4	11/16/2010	6010B	<0.1	<0.1	<0.01	210	<0.03	<0.03	0.22	<0.025	0.14	85	<0.25	<0.025	2600	<0.001	<0.25
	8/2/2010	6010B	<0.1	<0.1	<0.01	NL	<0.03	<0.03	1	<0.025	0.33	NL	<0.25	<0.025	NL	0.002	<0.25
	4/20/2010	6010B	<0.1	<0.1	<0.01	590	<0.03	<0.03	0.95	<0.025	0.41	170	<0.25	<0.005	4800	0.00292	<0.25
EP-5	11/16/2010	6010B	<0.1	<0.1	<0.01	210	0.031	<0.03	0.37	<0.025	0.19	91	<0.25	<0.025	2600	<0.001	<0.25
	8/2/2010	6010B	<0.1	<0.1	<0.01	NL	<0.03	<0.03	0.42	<0.025	0.3	NL	<0.25	<0.025	NL	0.003	<0.25
	4/20/2010	6010B	<0.1	0.12	<0.01	780	<0.03	<0.03	0.71	<0.025	0.49	180	<0.25	<0.005	6400	0.00271	<0.25
EP-6	11/16/2010	6010B	<0.1	0.12	<0.01	240	<0.03	<0.03	0.18	<0.025	0.3	110	<0.25	<0.025	3400	0.001	<0.25
	8/2/2010	6010B	<0.1	<0.1	<0.01	NL	<0.03	<0.03	0.033	<0.025	0.045	NL	<0.25	<0.025	NL	0.002	<0.25
	4/20/2010	6010B	<0.02	0.068	<0.002	320	<0.006	<0.006	0.38	<0.005	0.43	72	<0.05	<0.005	2700	0.00169	0.5
EP-7	11/16/2010	6010B	<0.2	<0.2	<0.02	870	<0.06	<0.06	0.19	<0.05	2.3	790	<0.5	<0.05	19000	0.003	<0 .5
	8/2/2010	6010B	<0.4	<0.4	<0.04	NL	<0.12	<0.12	<0.2	<0.1	3.4	NL	<1.0	<0.1	NL	0.003	<1.0
	4/20/2010	6010B	<0.1	<0.1	<0.01	880	<0.03	<0.03	<0.1	<0.025	2.5	640	<0.25	<0.025	15000	0.00228	<0.25
EP-8	11/16/2010	6010B	<0.4	<0.4	<0.04	760	<0.12	<0.12	0.11	<0.1	9.1	2900	<1.0	<0.1	33000	0.003	1
	8/2/2010	6010B	0.77	<0.4	<0.04	NL	<0.12	<0.12	<0.2	<0.1	22	NL	<1.0	<0.1	NL	0.001	1
	4/20/2010	6010B	<0.2	<0.2	<0.02	720	<0.06	<0.06	0.26	<0.05	10	2100	<0.05	<0.05	27000	0.00166	<0.5
EP-9	11/16/2010	6010B	<0.4	<0.4	<0.04	1400	<0.12	<0.12	<0.4	<0.1	5.3	1400	<1.0	<0.1	37000	0.003	<1.0
	4/20/2010	6010B	<0.2	0.14	<0.01	860	<0.03	<0.03	0.17	<0.025	2.6	840	<0.25	<0.025	23000	0.00221	<0.25

8.10.4 Evaporation Ponds (EP-1 thru EP-12B)
Dissolved Metals Analytical Result Summary

			Parameters													
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**0.01**	**NE**	**0.05**	**1.0**	**1.0**	**0.05**	**0.2**	**NE**	**0.05**	**0.05**	**NE**	**0.03**	**10.0**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**0.005**	**NE**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**NE**	**0.05**	**NE**	**NE**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**															
EP-11	11/16/2010	6010B	<0.1	0.12	<0.01	410	<0.03	<0.03	0.48	<0.025	0.64	280	<0.25	<0.025	7400	0.002	<0.25
	4/20/2010	6010B	<0.1	<0.1	<0.01	690	<0.03	<0.03	0.15	<0.025	1.6	360	<0.25	<0.025	9900	0.00211	<0.25
EP-12A	11/16/2010	6010B	<0.1	<0.1	<0.01	320	<0.03	<0.03	0.4	<0.025	0.27	210	<0.25	<0.025	6200	0.002	<0.25
	4/20/2010	6010B	<0.2	0.074	<0.002	370	<0.006	<0.006	0.55	<0.005	0.28	130	<0.05	<0.005	3600	0.00166	<0.05
EP-12B	11/16/2010	6010B	<0.1	<0.1	<0.01	180	<0.03	<0.03	0.84	<0.025	0.15	110	<0.25	<0.025	3400	<0.001	<0.25
	4/20/2010	6010B	<0.2	0.064	<0.002	330	<0.006	<0.006	1.8	<0.005	0.35	150	<0.05	<0.005	3100	0.00297	<0.05

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
1. National Primary Drinking Water Regulation (May 2009); Action Level

8.10.5 Evaporation Ponds (EP-1 thru EP-12B)
Volatile Organic Analytical Result Summary

			Parameters										
			1,2,4-Trimethylbenzene (mg/L)	1,3,5-Trimethylbenzene (mg/L)	Naphthalene (mg/L)	Acetone (mg/L)	1-Methylnaphthalene (mg/L)	2-Methylnaphthalene (mg/L)	2-Butanone (mg/L)	Carbon disulfide (mg/L)	Chloroform (mg/L)	Chloromethane (mg/L)	n-Butylbenzene (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			0.015	0.37	1.4E-04	22	0.0023	0.15	NE	1	1.9E-04	0.19	1.8
Well ID	DATE SAMPLED	METHOD											
EP-1	8/2/2010	8260B	0.016	<0.005	0.016	0.73	0.044	0.07	0.086	<0.05	<0.005	<0.005	<0.005
	4/20/2010	8260B	0.0055	0.0018	0.011	1.7	0.027	0.045	0.1	<0.01	<0.01	<0.01	<0.01
	6/17/2009	8260B	0.023	0.0074	0.012	0.46	0.054	0.054	<0.05	<0.05	<0.005	<0.005	<0.005
	12/2/2008	8260B	0.13	0.046	0.074	1	0.14	0.22	0.094	<0.05	<0.005	<0.005	0.021
	9/9/2008	8260B	0.027	0.0095	0.033	1.6	0.062	0.088	0.15	0.039	<0.001	<0.001	0.0087
	6/17/2008	8260B	0.017	0.0044	0.031	1.6	0.072	0.3	0.19	0.011	<0.005	<0.005	0.0055
	3/11/2008	8260B	0.038	0.11	0.2	1.4	0.28	0.39	0.16	<0.05	<0.005	<0.005	0.046
EP-2	8/2/2010	8260B	<0.005	<0.0058	<0.01	0.27	<0.02	<0.02	<0.05	<0.05	<0.005	<0.005	<0.005
	4/20/2010	8260B	0.0046	0.0014	0.01	0.15	0.032	0.052	<0.01	0.021	<0.01	<0.01	<0.01
	6/17/2009	8260B	0.026	0.0085	0.012	0.56	0.078	0.078	0.05	0.057	<0.005	<0.005	0.0054
	12/2/2008	8260B	0.028	0.0097	0.016	0.65	0.037	0.053	0.072	0.026	<0.005	<0.005	0.0041
	9/9/2008	8260B	0.0064	0.0021	0.0064	0.36	0.016	0.023	0.035	0.025	<0.001	<0.001	0.0025
	6/17/2008	8260B	0.015	<0.01	0.014	0.64	0.033	0.05	0.08	<0.001	<0.001	<0.001	0.009
	3/11/2008	8260B	0.012	0.0032	0.02	1.7	0.034	0.049	0.12	0.018	<0.001	<0.001	0.0014
EP-3	8/2/2010	8260B	<0.005	<0.005	<0.1	0.22	<0.02	<0.02	<0.05	<0.05	<0.005	<0.005	<0.005
	4/20/2010	8260B	<0.001	<0.001	0.0023	0.21	0.0076	0.012	0.014	0.043	<0.001	<0.001	<0.001
	6/17/2009	8260B	0.0018	<0.01	<0.01	0.047	0.0063	0.0061	<0.01	<0.01	<0.001	<0.001	<0.001
	12/2/2008	8260B	0.018	0.0065	0.011	0.67	0.024	0.035	0.064	0.028	<0.001	<0.001	0.0024
	9/9/2008	8260B	<0.01	<0.01	<0.02	0.11	<0.04	<0.04	<1.0	<1.0	<0.1	<0.1	<0.1
	6/17/2008	8260B	0.002	<0.01	0.003	0.16	0.015	0.023	0.018	0.01	<0.1	<0.1	<0.1
	3/11/2008	8260B	0.0043	0.001	0.0087	0.92	0.02	0.028	0.064	0.045	<0.001	<0.001	<0.001
EP-4	8/2/2010	8260B	<0.001	<0.001	<0.002	0.1	<0.004	<0.004	0.011	<0.01	<0.001	<0.001	<0.001
	4/20/2010	8260B	<0.001	<0.001	<0.002	0.19	0.005	0.0073	0.014	0.041	<0.001	<0.001	<0.001
	6/17/2009	8260B	<0.001	<0.001	<0.02	0.04	<0.04	<0.04	<0.01	<0.01	<0.001	<0.001	<0.001
	12/2/2008	8260B	0.013	0.0048	0.0075	0.6	0.014	0.021	0.043	0.034	<0.001	<0.001	0.0023
	9/9/2008	8260B	<0.01	<0.01	<0.02	<0.1	<0.04	<0.04	<0.1	<0.1	<0.01	<0.01	<0.01
	6/17/2008	8260B	<0.01	<0.01	<0.02	0.059	<0.04	<0.04	<0.1	0.05	<0.01	<0.01	<0.01
	3/11/2008	8260B	0.0028	<0.01	0.0066	0.8	0.015	0.022	0.042	0.063	<0.001	<0.001	<0.001

8.10.5 Evaporation Ponds (EP-1 thru EP-12B)
Volatile Organic Analytical Result Summary

			Parameters										
			1,2,4-Trimethylbenzene (mg/L)	1,3,5-Trimethylbenzene (mg/L)	Naphthalene (mg/L)	Acetone (mg/L)	1-Methylnaphthalene (mg/L)	2-Methylnaphthalene (mg/L)	2-Butanone (mg/L)	Carbon disulfide (mg/L)	Chloroform (mg/L)	Chloromethane (mg/L)	n-Butylbenzene (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			0.015	0.37	1.4E-04	22	0.0023	0.15	NE	1	1.9E-04	0.19	1.8
Well ID	DATE SAMPLED	METHOD											
EP-5	8/2/2010	8260B	<0.001	<0.001	<0.002	0.045	<0.004	<0.004	<0.1	<0.1	<0.01	<0.01	<0.01
	4/20/2010	8260B	<0.001	<0.001	<0.002	0.13	<0.004	0.0046	0.011	0.047	<0.001	<0.001	<0.001
	6/17/2009	8260B	<0.001	<0.001	<0.02	0.031	<0.004	<0.004	<0.01	<0.01	<0.001	<0.001	<0.001
	12/2/2008	8260B	0.048	0.019	0.0025	0.2	0.0061	0.0089	0.016	0.015	<0.01	<0.01	0.0011
	9/9/2008	8260B	<0.01	<0.01	<0.02	<0.1	<0.04	<0.04	<0.1	<0.1	<0.01	<0.01	<0.01
	6/17/2008	8260B	<0.01	<0.01	<0.02	0.046	<0.04	<0.04	<0.1	0.033	<0.01	<0.01	<0.01
	3/11/2008	8260B	0.0015	--	0.0037	0.19	0.011	0.017	0.023	0.097	<0.01	<0.01	<0.01
EP-6	8/2/2010	8260B	<0.001	<0.001	<0.002	0.02	<0.004	<0.004	<0.1	<0.1	<0.01	<0.01	<0.01
	4/20/2010	8260B	<0.001	<0.001	<0.002	0.044	<0.004	<0.004	<0.1	<0.1	<0.001	<0.001	<0.001
	6/17/2009	8260B	<0.001	<0.001	<0.002	<0.01	<0.004	<0.004	<0.1	<0.1	<0.001	<0.001	<0.001
	12/2/2008	8260B	0.001	<0.001	<0.002	<0.01	<0.04	<0.04	<0.1	<0.1	<0.01	<0.01	<0.01
	9/9/2008	8260B	<0.001	<0.001	<0.002	<0.1	<0.04	<0.04	<0.1	<0.1	<0.01	<0.01	<0.01
	6/17/2008	8260B	<0.001	<0.001	<0.002	<0.1	<0.04	<0.04	<0.1	<0.1	<0.01	<0.01	<0.01
	3/11/2008	8260B	0.002	<0.001	0.004	0.64	0.015	0.02	0.032	0.04	<0.01	<0.01	<0.01
EP-7	8/2/2010	8260B	<0.001	<0.001	<0.002	0.061	<0.004	<0.004	<0.01	<0.01	<0.001	<0.001	<0.001
	4/20/2010	8260B	<0.001	<0.001	<0.002	0.023	<0.004	<0.004	<0.01	<0.01	<0.001	<0.001	<0.001
	6/17/2009	8260B	0.0011	<0.001	<0.02	0.034	<0.04	<0.04	<0.01	<0.01	<0.001	<0.001	<0.001
	12/2/2008	8260B	0.0013	<0.001	<0.02	0.017	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01
	9/9/2008	8260B	<0.01	<0.01	<0.02	--	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01
	6/17/2008	8260B	0.0012	<0.001	<0.02	0.049	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01
	3/11/2008	8260B	<0.001	<0.001	<0.02	0.034	<0.04	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01
EP-8	8/2/2010	8260B	<0.001	<0.001	<0.002	0.066	<0.004	<0.004	<0.01	<0.01	<0.001	<0.001	<0.001
	4/20/2010	8260B	<0.001	<0.001	<0.002	0.038	<0.004	<0.004	<0.01	<0.01	<0.001	<0.001	<0.001
	6/17/2009	8260B	<0.001	<0.001	<0.002	0.099	<0.004	<0.004	<0.01	<0.01	<0.001	0.0014	<0.001
	12/2/2008	8260B	<0.001	<0.001	<0.002	<0.1	<0.004	<0.004	<0.01	<0.01	<0.001	<0.001	<0.001
	9/9/2008	8260B	<0.001	<0.001	<0.002	<0.1	<0.004	<0.004	<0.01	<0.01	<0.001	<0.001	<0.001
	6/17/2008	8260B	0.0011	<0.001	<0.002	0.12	<0.004	<0.004	0.014	<0.01	0.0014	<0.001	<0.001
	3/11/2008	8260B	<0.001	<0.001	<0.002	0.024	<0.001	<0.001	<0.01	<0.01	<0.001	<0.001	<0.001
EP-9	4/20/2011	8260B	<0.001	<0.001	<0.002	0.015	<0.004	<0.004	<0.01	<0.01	<0.001	<0.001	<0.001
EP-11	4/20/2011	8260B	<0.001	<0.001	<0.002	0.039	<0.004	<0.004	<0.01	<0.01	<0.001	<0.001	<0.001
EP-12A	4/20/2011	8260B	<0.001	<0.001	<0.002	.0.13	<0.004	<0.004	0.011	0.034	<0.001	<0.001	<0.001
EP-12B	4/20/2011	8260B	0.0016	<0.001	0.0034	0.3	0.012	0.019	0.025	0.035	<0.001	<0.001	<0.001

8.10.5 Evaporation Ponds (EP-1 thru EP-12B)
Volatile Organic Analytical Result Summary

			Parameters									
			1,2,4-Trimethylbenzene (mg/L)	1,3,5-Trimethylbenzene (mg/L)	Naphthalene (mg/L)	Acetone (mg/L)	1-Methylnaphthalene (mg/L)	2-Methylnaphthalene (mg/L)	2-Butanone (mg/L)	Carbon disulfide (mg/L)	Chloroform (mg/L)	Chloromethane (mg/L)	n-Butylbenzene (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			0.015	0.37	1.4E-04	22	0.0023	0.15	NE	1	1.9E-04	0.19	1.8
Well ID	DATE SAMPLED	METHOD											

DEFINITIONS
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water
EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES:
11/16/10- EP-1 thru EP-12B - Method 8260B Short List analyticals run. No values entered for this date.

8.10.6 Evaporation Ponds (EP-1 thru EP-12B)
Volatile Organics Analytical Result Summary

			Parameters														
			Aniline (mg/L)	Benzoic acid (mg/L)	Benzyl alcohol (mg/L)	Bis(2-ethylhexyl)phthalate (mg/L)	Carbazole (mg/L)	2,4-Dimethylphenol (mg/L)	Fluorene (mg/L)	2-Methylnaphthalene (mg/L)	2-Methylphenol (mg/L)	3+4-Methylphenol (mg/L)	Naphthalene (mg/L)	2-Nitrophenol (mg/L)	Phenanthrene (mg/L)	Phenol (mg/L)	Pyrene (mg/L)	Pyridine (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL for Tap Water (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			NE	150	3.7	0.0048	NE	0.73	1.5	0.0023	NE	NE	1.4E-04	NE	NE	11	1.1	0.037
WELL ID	SAMPLE DATE	METHOD																
EP-1	11/16/2010	8270C	0.6	<0.02	<0.01	<0.01	0.017	0.36	0.017	0.18	2.1	4.2	0.025	<0.1	0.11	8.5	0.012	<0.01
	4/20/2010	8270C	<0.05	<0.1	<0.05	<0.05	<0.05	0.063	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	0.11	0.091	<0.05	<0.05
EP-2	11/16/2010	8270C	0.48	<0.02	0.011	<0.05	0.01	0.24	<0.05	0.089	1.5	2.1	0.027	<0.01	0.014	3.3	<0.01	0.011
	4/20/2010	8270C	<0.05	0.16	<0.05	<0.05	<0.05	0.06	<0.05	0.075	0.88	1.4	<0.05	0.073	0.1	2.8	<0.05	<0.05
EP-3	11/16/2010	8270C	0.26	<0.02	<0.01	<0.01	<0.01	0.14	<0.05	0.026	0.91	1.9	<0.01	<0.01	<0.01	2.4	<0.01	<0.01
	4/20/2010	8270C	0.22	<0.1	<0.05	<0.05	<0.05	0.094	<0.05	<0.05	0.77	1.2	<0.05	<0.05	<0.05	2.8	<0.05	<0.05
EP-4	11/16/2010	8270C	0.21	<0.02	<0.01	0.015	<0.01	0.11	<0.05	<0.01	0.55	1.3	<0.01	<0.01	<0.01	1.6	<0.01	<0.01
	4/20/2010	8270C	0.18	<0.1	<0.05	<0.05	<0.05	0.073	<0.05	<0.05	0.62	0.96	<0.05	<0.05	<0.05	2.1	<0.05	<0.05
EP-5	11/16/2010	8270C	0.12	<0.1	<0.05	<005	<0.05	0.09	<0.05	<0.05	0.6	1.1	<0.05	<0.05	<0.05	1.2	<0.05	<0.05
	4/20/2010	8270C	0.17	<0.1	<0.05	<0.05	<0.05	0.074	<0.05	<0.05	0.64	1	<0.05	<0.05	<0.05	2.2	<0.05	<0.05
EP-6	11/16/2010	8270C	<0.01	<0.02	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.032	<0.01	<0.01
	4/20/2010	8270C	0.081	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.44	<0.05	<0.05	<0.05	0.38	<0.05	<0.05
EP-7	11/16/2010	8270C	<0.01	<0.02	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	4/20/2010	8270C	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-8	11/16/2010	8270C	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	4/20/2010	8270C	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-9	11/16/2010	8270C	<0.01	<0.02	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	4/20/2010	8270C	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-11	11/16/2010	8270C	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	4/20/2010	8270C	<0.01	<0.02	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05
EP-12A	11/16/2010	8270C	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	4/20/2010	8270C	0.067	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.17	<0.05	<0.05	<0.05	0.016	<0.05	<0.05
EP-12B	11/16/2010	8270C	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.066	0.078	<0.01	<0.01	<0.01	0.2	<0.01	<0.01
	4/20/2010	8270C	<0.05	<0.1	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	0.92	1.2	<0.05	<0.05	<0.05	2.7	<0.05	<0.05

DEFINITIONS
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water
EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES
Used unapproved monitoring schedule at beginning of 2010 where Method 8270C is required.

8.11 BW-1C, BW-2A, BW-2B, BW-2C, BW-3C, BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			0.01	0.75	0.75	0.62	NE
40 CFR 141.62 MCL			0.005	1	0.7	10	NE
EPA RSL for Tap Water (June 2011)			4.1E-04	2.3	0.0015	0.2	0.012
WELL ID	DATE SAMPLED	METHOD					
BW-1C	7/20/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/6/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/31/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	12/31/2007	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	10/27/2006	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
BW-2A	7/20/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/6/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/30/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	12/31/2007	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	10/27/2006	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
BW-2B	7/20/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/6/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/30/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	12/31/2007	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	10/27/2006	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
BW-2C	7/20/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/6/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/30/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	12/31/2007	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	10/27/2006	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
BW-3B	7/20/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/6/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/31/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	12/31/2007	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	10/27/2006	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
BW-3C	7/20/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/6/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	8/1/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	12/31/2007	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	10/27/2006	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other Standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES

.1 BW-1C, BW-2A, BW-2B, BW-2C, BW-3B, BW-3C
General Chemistry Analytical Result Summary

			Parameters								
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	*Specific* Conductance (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			1.6	250.0	NE	NE	10	NE	600.0	6 to 9	NE
40 CFR 141.62 MCL (mg/L)			4.0	NE	NE	1	10	NE	NE	NE	NE
Well ID	**DATE SAMPLED**	**METHOD**									
BW-1C	7/20/2010	300.0	**2.7**	37	0.11	<1.0	<1.0	<0.5	290	8.66	1400
	8/3/2009	300.0	**2.5**	42	0.12	<0.1	<0.1	<0.5	280	8.65	1300
	7/31/2008	300.0	**2.4**	35	<0.1	<1.0	<1.0	<0.5	260	8.68	1400
	12/31/2007	300.0	**2.6**	35	NL	<1.0	<1.0	<0.5	270	8.5	1400
	10/27/2006	300.0	**2.7**	36	NL	<0.5	<0.5	<0.5	NL	8.39	1400
BW-2A	7/20/2010	300.0	1.2	42	0.43	<1.0	<1.0	0.68	7.1	8.09	1300
	8/3/2009	300.0	1.2	45	0.42	<0.1	<0.1	1	7.2	8.13	1300
	7/30/2008	300.0	1.1	40	0.43	<1.0	<1.0	0.75	7.3	7.87	1400
	12/31/2007	300.0	1.3	42	NL	<1.0	<1.0	0.7	7.7	7.76	1400
	10/27/2006	300.0	1.3	NL	NL	<0.5	<0.5	0.64	7.5	8.27	1400
BW-2B	7/20/2010	300.0	**1.8**	32	0.82	<1.0	<1.0	<0.5	160	8.17	2200
	8/3/2009	300.0	**1.7**	36	0.86	<0.1	<0.1	<0.5	160	8.07	2200
	7/30/2008	300.0	**1.6**	30	1.1	<1.0	<1.0	<0.5	150	7.76	2200
	12/31/2007	300.0	**1.8**	30	NL	<1.0	<1.0	<0.5	150	7.77	2400
	10/27/2006	300.0	**1.9**	31	NL	<0.5	<0.5	<0.5	140	8.1	1400
BW-2C	7/20/2010	300.0	**2.1**	62	0.12	<1.0	<1.0	<0.5	310	8.73	1400
	8/3/2009	300.0	**1.9**	52	0.14	<0.1	0.13	<0.5	280	8.88	1300
	7/30/2008	300.0	**1.9**	44	0.14	<1.0	<1.0	<0.5	270	8.83	1400
	12/31/2007	300.0	**2.3**	45	NL	<1.0	<1.0	<0.5	290	8.73	1400
	10/27/2006	300.0	**2.4**	42	NL	<0.5	<0.5	<0.5	270	8.52	1300
BW-3B	7/20/2010	300.0	1.4	33	0.42	<0.01	<0.01	1.1	54	8.37	1500
	8/3/2009	300.0	1.5	41	0.45	<0.1	0.27	1.4	69	8.23	1500
	7/31/2008	300.0	1.4	34	0.42	<1.0	<1.0	1.1	55	7.95	1500
	12/31/2007	300.0	**1.6**	35	NL	<1.0	<1.0	1.1	51	7.93	1600
	10/27/2006	300.0	**1.7**	33	NL	<0.5	<0.5	1.1	250	8.5	1600
BW-3C	7/20/2010	300.0	1.4	41	0.12	<0.1	0.12	<0.5	380	8.57	1500
	8/3/2009	300.0	1.4	43	0.14	<0.1	0.21	<0.5	320	8.65	1500
	8/1/2008	300.0	1.5	34	<1.0	<2.0	<2.0	<5.0	240	8.63	1500
	12/31/2007	300.0	**1.8**	38	NL	<1.0	<1.0	<0.5	300	8.59	1500
	10/27/2006	300.0	**1.9**	37	NL	<0.5	<0.5	<0.5	280	8.39	1400

.1 BW-1C, BW-2A, BW-2B, BW-2C, BW-3B, BW-3C
General Chemistry Analytical Result Summary

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES

8.11.2 BW-1C, BW-2A, BW-2B, BW-2C, BW-3B, BW-3C
Total Metals Analytical Result Summary

			Parameters															
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Mercury (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			0.1	1.0	0.01	NE	0.05	1.0	1.0	0.05	NE	0.2	NE	0.05	0.05	NE	0.002	0.03	10
40 CFR 141.62 MCL (mg/L)			0.01	2.0	0.005	NE	0.1	1.3[1]	NE	0.015[1]	NE	NE	NE	0.05	NE	NE	0.002	0.03	NE
Well ID	**DATE SAMPLED**	**METHOD**																	
BW-1C	7/20/2010	6010B	<0.02	<0.02	<0.002	3.2	<0.006	<0.006	<0.05	<0.005	<1.0	0.0083	<1.0	<0.05	<0.005	310	<0.0002	0.003	<0.02
	7/6/2009	6010B	<0.02	<0.02	<0.002	NL	<0.006	<0.006	<0.05	<0.005	<1.0	0.0027	<1.0	<0.05	<0.005	NL	<0.0002	0.002	<0.05
	7/31/2008	6010B	<0.02	0.016	<0.002	3	<0.006	<0.006	<0.05	<0.005	0.62	0.013	<1.0	<0.05	<0.005	310	<0.002	1.15E-03	<0.02
	12/31/2007	6010B	<0.02	0.023	<0.002	3.6	<0.006	<0.006	<0.05	<0.005	0.74	0.01	<1.0	<0.05	<0.005	360	<0.0002	<0.1	<0.02
	10/28/2006	6010B	<0.02	<0.2	<0.002	3.4	<0.006	<0.006	<0.05	<0.005	<1.0	NL	<1.0	<0.05	<0.005	NL	<0.0002	<0.1	<0.02
BW-2A	7/20/2010	6010B	<0.02	0.13	<0.002	9.6	<0.006	<0.006	0.36	<0.005	3.5	0.12	<1.0	<0.05	<0.005	340	<0.0002	<0.001	>0.01
	7/6/2009	6010B	<0.02	0.15	<0.002	NL	<0.006	<0.006	0.5	<0.005	3.4	0.15	<1.0	<0.05	<0.005	NL;	<0.0002	<0.001	<0.05
	7/30/2008	6010B	<0.02	0.14	<0.002	8.6	<0.006	<0.006	0.37	<0.005	3.2	0.14	<1.0	<0.05	<0.005	320	<0.0002	<0.001	<0.02
	12/31/2007	6010B	<0.02	0.18	<0.002	11	<0.006	<0.006	0.7	<0.005	3.9	**0.22**	<1.0	<0.05	<0.005	380	<0.0002	<0.1	<0.02
	10/28/2006	6010B	<0.02	0.15	<0.002	10	<0.006	<0.006	<0.05	<0.005	NL	NL	<1.0	<0.05	<0.005	NL	<0.0002	<0.1	<0.02
BW-2B	7/20/2010	6010B	<0.02	0.047	<0.002	14	<0.006	<0.006	0.16	<0.005	3.1	**0.22**	1.2	<0.05	<0.005	580	<0.0002	0.012	<0.02
	7/6/2009	6010B	<0.02	0.099	<0.002	NL	<0.006	<0.006	**1.8**	<0.005	4.1	**0.47**	1.8	<0.05	<0.005	NL	<0.0002	0.013	<0.02
	7/31/2008	6010B	<0.02	0.041	<0.002	13	<0.006	<0.006	0.064	<0.005	3	0.16	<1.0	<0.05	<0.005	570	<0.0002	0.0115	<0.02
	12/31/2007	6010B	<0.02	0.07	<0.002	16	<0.006	<0.006	0.62	<0.005	3.6	**0.29**	1.6	<0.05	<0.005	640	<0.0002	<0.1	<0.02
BW-2C	7/20/2010	6010B	<0.02	0.024	<0.002	4.9	0.017	<0.006	0.74	<0.005	1.3	0.033	<1.0	<0.05	<0.005	330	<0.0002	0.006	<0.02
	7/6/2009	6010B	<0.02	0.078	<0.002	NL	<0.006	<0.006	0.85	<0.005	1.5	**0.2**	1.1	<0.05	<0.005	NL	<0.0002	0.005	<0.05
	7/30/2008	6010B	<0.02	0.13	<0.002	24	<0.006	<0.006	**1.3**	<0.005	2	**0.43**	1.1	<0.05	<0.005	300	<0.0002	7.26E-03	<0.02
	12/31/2007	6010B	<0.02	0.026	<0.002	2.9	<0.006	<0.006	0.16	<0.005	0.68	0.024	<1.0	<0.05	<0.005	340	<0.0002	<0.1	<0.02
	10/28/2006	6010B	<0.02	0.031	<0.002	5.6	<0.006	<0.006	<0.05	<0.005	<1.0	NL	<1.0	<0.05	<0.005	NL	<0.0002	<0.1	<0.02
BW-3B	7/20/2010	6010B	<0.02	0.079	<0.002	8.5	<0.006	<0.006	0.45	<0.005	2.6	0.074	<1.0	<0.05	<0.005	390	<0.0002	<0.001	<0.02
	7/6/2009	6010B	<0.02	0.098	<0.002	NL	<0.006	<0.006	0.62	<0.005	2.6	0.11	<1.0	<0.05	<0.005	NL	<0.0002	<0.001	<0.05
	7/31/2008	6010B	<0.02	0.11	<0.002	8.3	<0.006	<0.006	0.43	<0.005	2.6	0.12	<1.0	<0.05	<0.005	370	<0.0002	<0.001	<0.02
	12/31/2007	6010B	<0.02	0.099	<0.002	9	<0.006	<0.006	0.64	<0.005	2.9	0.13	<1.0	<0.05	<0.005	430	<0.0002	<0.1	<0.02
	10/28/2006	6010B	<0.02	0.11	<0.002	9	<0.006	<0.006	<0.05	<0.005	NL	NL	<1.0	<0.05	<0.005	NL	<0.0002	<0.1	<0.02
BW-3C	7/20/2010	6010B	<0.02	0.042	<0.002	3.8	0.0068	<0.006	0.83	<0.005	<1.0	0.021	<1.0	<0.05	<0.005	370	<0.0002	<0.001	<0.02
	7/6/2009	6010B	<0.02	0.054	<0.002	NL	<0.006	<0.006	0.19	<0.005	<1.0	0.02	<1.0	<0.05	<0.005	NL	<0.0002	0.001	<0.02
	8/1/2008	6010B	<0.02	0.27	<0.002	28	0.0078	<0.006	3	<0.005	2.2	**0.41**	1.6	<0.05	<0.005	350	<0.0002	2.51E-03	0.032
	12/31/2007	6010B	<0.02	0.068	<0.002	4.2	<0.006	<0.006	0.14	<0.005	0.81	0.015	1.1	<0.05	<0.005	360	<0.0002	<0.1	<0.02
	10/28/2006	6010B	<0.02	0.059	<0.002	6	<0.006	<0.006	<0.05	<0.005	NL	NL	<1.0	<0.05	<0.005	NL	<0.0002	<0.1	<0.02

8.11.2 BW-1C, BW-2A, BW-2B, BW-2C, BW-3B, BW-3C
Total Metals Analytical Result Summary

			Parameters														
			Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Silver (mg/L)	Sodium (mg/L)	Mercury (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			0.1	1.0	0.01	NE	0.05	1.0	1.0	0.05	NE	0.2	NE	0.05	0.05	NE	0.002	0.03	10
40 CFR 141.62 MCL (mg/L)			0.01	2.0	0.005	NE	0.1	1.3[1]	NE	0.015[1]	NE	NE	NE	0.05	NE	NE	0.002	0.03	NE
Well ID	DATE SAMPLED	METHOD																	

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
1. National Primary Drinking Water Regulation (May 2009); Action Level

NOTES

8.11.3 BW-1C, BW-2A, BW-2B, BW-2C, BW-3C
Semi-Volatile Organic Analytical Result Summary

			Parameters
			Bis(2-ethylhexyl)phthalate (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE
EPA RSL (mg/L)			0.0048
Well ID	**DATE SAMPLED**	**METHOD**	
BW-3B	7/20/2010	8270C/8260	<0.01
	7/6/2009	8270C/8260	0.01

DEFINITIONS
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES

8.12 EP-2 INLET: BTEX Analytical Result Summary

			Parameters							
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	DRO (mg/L)	GRO (mg/L)	TDS (mg/L)
WQCC 20NMAC 6.2.3103			**0.01**	**0.75**	**0.75**	**0.62**	**NE**	**0.2[1]**	**NE**	**1000**
40 CFR 141.62 MCL			**0.005**	**1**	**0.7**	**10**	**NE**	**NE**	**NE**	**NE**
EPA RSL for Tap Water (June 2011)			**4.1E-04**	**2.3**	**0.0015**	**0.2**	**0.012**	**NE**	**NE**	**NE**
SAMPLE ID	**DATE SAMPLED**	**METHOD**								
EP-2 Inlet	7/21/2010	8260B	<0.005	<0.005	<0.005	<0.0075	<0.005	**21**	0.83	**4120**
	6/17/2009	8260B	0.0039	0.02	**0.0042**	0.037	<0.001	**23**	2	**2600**
	8/21/2008	8260B	<0.01	0.026	**0.014**	0.1	<0.01	**290**	10	**2000**
	1/1/2008[2]	8260B	**0.13**	0.26	**0.044**	**0.26**	0.0052	**150**	2.6	**2200**

DEFINITIONS

NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS

WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water
[1] NMED Table 2a. TPH Screening Guidelines for Potable Ground Water (GW-1). (Oct 2006)
40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES

[2]Due to inclement weather in December 2007, samples were collected in January 2008.

8.12.1 EP-2 Inlet
BOD/COD Analytical Result Summary

			Parameters	
			BOD (mg/L)	COD (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)				
Well ID	DATE SAMPLED	METHOD		
EP-2 Inlet	7/21/2010	SM5210B/5220C	1400	3200
	6/18/2009	SM5210B/5220C	191	1149
	8/22/2008	SM5210B/5220C	348	1540
	3/26/2008	SM5210B/5220C	649	1430
	3/20/2008	SM5210B/5220C	344	829
	3/11/2008	SM5210B/5220C	651	1150
	3/6/2008	SM5210B/5220C	947	1520
	2/28/2008	SM5210B/5220C	46.1	2440
	2/21/2008	SM5210B/5220C	>394	1950
	2/14/2008	SM5210B/5220C	570	2290
	2/7/2008	SM5210B/5220C	671	2570
	1/31/2008	SM5210B/5220C	414	1290
	1/25/2008	SM5210B/5220C	520	1200
	1/18/2008	SM5210B/5220C	462	1460
	1/11/2008	SM5210B/5220C	449	1350

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
ND = Data Unavailable
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/L TDS Concentrations or Less.

NOTES
[1] *EP-9, 11, 12A and 12B are additions to the Facility Wide Monitoring Plan approved August 25, 2010*
Technician used the unapproved Plan at beginning of 2010 as the sampling schedule

8.12.2 EP-2 INLET: Volatile Organic Analytical Result Summary

			Parameters											
			1,2,4-Trimethylbenzene (mg/L)	1,3,5-Trimethylbenzene (mg/L)	Naphthalene (mg/L)	1-Methylnaphthalene (mg/L)	2-Methylnaphthalene (mg/L)	Acetone (mg/L)	2-Butanone (mg/L)	Carbon Disulfide (mg/L)	Isopropylbenzene (mg/L)	4-Isopropyltoluene (mg/L)	n-Butylbenzene (mg/L)	n-Propylbenzene (mg/L)	sec-Butylbenzene (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			**0.015**	**0.37**	**1.4E-04**	**0.0023**	**0.15**	**22**	NE	**1**	NE	NE	**1.8**	NE	NE
SAMPLE LOCATION	**DATE SAMPLED**	**METHOD**													
EP-2 Inlet	7/21/2010	8260B	<0.005	<0.005	<0.01	<0.02	<0.02	0.49	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005
	6/17/2009	8260B	**0.025**	0.0082	0.011	**0.057**	0.061	0.5	0.046	0.011	<0.001	<0.001	0.0044	0.0018	<0.001
	8/21/2008	8260B	**0.11**	0.035	0.02	**0.3**	**0.34**	1.2	0.14	<.1	<0.01	<0.01	0.029	0.013	<0.001
	1/1/2008[1]	8260B	**0.17**	0.047	0.25	**0.46**	**0.75**	<0.05	<0.05	0.14	0.0063	0.007	0.044	0.019	0.0071

DEFINITIONS
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES
[1]Due to inclement weather in December 2007, samples were taken in January 2008.

8.13 MW-1, MW-2, MW-4, MW-5
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			**0.01**	**0.75**	**0.75**	**0.62**	**NE**
40 CFR 141.62 MCL			**0.005**	**1**	**0.7**	**10**	**NE**
EPA RSL for Tap Water (June 2011)			**4.1E-04**	**2.3**	**0.0015**	**0.2**	**0.012**
WELL ID	**DATE SAMPLED**	**METHOD**					
MW-1	7/16/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/16/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	8/4/2008	8260B	<0.005	<0.005	<0.005	<0.005	NA
	12/29/2007	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	10/26/2006	8260B	<0.001	<0.001	<0.001	<0.0015	<0.0015
MW-2[1]	7/16/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
MW-4[2]	7/19/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/8/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	8/5/2008	8260B	<0.005	<0.005	<0.005	<0.005	NA
	12/29/2007	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	10/12/2005	8260B	<0.001	<0.001	<0.001	<0.0015	<0.0015
MW-5[1]	7/19/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/15/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	8/13/2008	8260B	<0.005	<0.001	<0.001	<0.0015	NA
	12/29/2007	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	10/12/2005	8260B	<0.001	<0.001	<0.001	<0.0015	<0.0015

DEFINITIONS
ND = No Data available
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Sandards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES
[1]This was part of the 10 year RCRA Post Closure Sampling Event
[2]Wells MW-4, MW-5, SMW-2 and SMW-4 were not sampled in 2006. Analyses for metals were not conducted in 2006.

8.13.1 MW-1, MW-2, MW-4, MW-5
General Chemistry Analytical Result Summary

			Parameters								
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**1.6**	**250.0**	**NE**	**NE**	**10**	**NE**	**600.0**	**6 to 9**	**NE**
40 CFR 141.62 MCL (mg/L)			**4.0**	**NE**	**NE**	**1**	**10**	**NE**	**NE**	**NE**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**									
MW-1	7/16/2010	300.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/15/2009	300.0	0.76	53	NL	<1.0	<1.0	<0.5	160	9.02	1100
	8/4/2008	300.0	0.81	51	NL	<1.0	<0.5	<0.5	160	8.95	1100
	5/24/2007	300.0	0.69	53	NL	<1.0	<1.0	<0.5	170	8.89	1100
MW-2	7/16/2009	300.0	0.82	60	NL	<1.0	<1.0	<0.5	170	9	1100
MW-4	7/19/2010	300.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/8/2009	300.0	0.37	16	NL	<1.0	<1.0	<0.5	160	8.74	1200
	8/5/2008	300.0	0.37	17	NL	<1.0	<1.0	<0.5	160	8.63	1200
	12/29/2007	300.0	0.42	17	NL	<1.0	<1.0	<0.5	160	8.63	1200
MW-5	7/19/2010	300.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/15/2009	300.0	0.76	66	NL	<1.0	<1.0	<0.5	180	8.96	1100
	8/13/2008	300.0	0.85	63	0.15	<1.0	<0.1	<0.1	180	9.02	1200

DEFINITIONS
NE = Not established
NA = Not analyzed
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Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES

8.13.2 MW-1, MW-2, MW-4, MW-5
DRO/GRO Analytical Result Summary

			Parameters	
			DRO (mg/L)	GRO (mg/L)
WQCC 20NMAC 6.2.3103			0.2[1]	NE
Well ID	DATE SAMPLED	METHOD		
MW-1	7/16/2010	8015B	<1.0	<0.05
	3/1/2010[2]	8015B	<1.0	<0.05
	7/16/2009	8015B	<1.0	<0.05
	8/4/2008	8015B	<1.0	<0.05
	12/29/2007	8015B	<1.0	<0.05
	10/26/2006	8015B	<1.0	<0.05
MW-2	3/1/2010[2]	8015B	<1.0	<0.05
MW-4	7/19/2010	8015B	<1.0	<0.05
	3/1/2010[2]	8015B	<1.0	<0.05
	7/8/2009	8015B	<1.0	<0.05
	8/5/2008	8015B	<1.0	<0.05
	12/29/2007	8015B	<1.0	<0.05
		8015B		
MW-5	7/19/2010	8015B	<1.0	<0.05
	3/1/2010[2]	8015B	<1.0	<0.05
	7/15/2009	8015B	<1.0	<0.05
	8/13/2008	8015B	<1.0	<0.05
	12/29/2007	8015B	<1.0	<0.05

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water
1. NMED Table 2a. TPH Screening Guidelines for Potable Ground Water (GW-1). (Oct 2006)

NOTES
[2]This was part of the 10 year RCRA Post Closure Sampling Event
Wells MW-4, MW-5, SMW-2 and SMW-4 were not sampled in 2006. Analyses for metals were not conducted in 2006.

8.13.3 MW-1, MW-2, MW-4, MW-5
Total Metals Analytical Result Summary

			Parameters										
			Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Sodium (mg/L)	Lead (mg/L)	Manganese (mg/L)	Selenium (mg/L)	Cyanide (mg/L)	Mercury (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**NE**	**0.05**	**NE**	**0.05**	**0.2**	**0.05**	**0.2**	**0.002**	**10**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**NE**	**0.1**	**NE**	**0.015[1]**	**NE**	**0.05**	**0.2**	**0.002**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**											
MW-1	7/16/2010	6010B	1.46E-03	<0.02	NL	<0.006	NL	<0.005	NL	<0.001	<0.01	<0.0002	<002
	3/1/10[2]	6010B	<0.005	<0.02	NL	<0.006	NL	<0.005	NL	<0.005	NL	<0.0002	<0.02
	7/16/2009	6010B	1.24E-03	0.015	2.1	<0.006	250	<0.005	NL	<0.001	<0.01	<0.0002	<0.02
	8/4/2008	6010B	<0.02	<0.02	1.7	<0.006	260	<0.005	NL	<0.05	<0.01	<0.0002	<0.02
	12/29/2007	6010B	**0.02**	<0.02	3.2	<0.006	230	<0.005	0.018	<0.05	<0.01	<0.0002	<0.02
MW-2	3/1/10[2]	6010B	<0.005	<0.02	NL	<0.006	NL	<0.005	NL	<0.005	<0.01	<0.0002	<0.02
	7/16/2009	6010B	1.04E-03	0.019	1.6	<0.006	250	<0.005	NL	<0.002	<0.01	<0.0002	<0.02
MW-4	7/19/2010	6010B	1.17E-03	0.022	NL	<0.006	NL	<0.005	NL	<0.001	<0.01	<0.0002	<0.02
	3/1/10[2]	6010B	<0.005	0.023	NL	<0.006	NL	<0.005	NL	<0.005	<0.01	<0.0002	<0.02
	7/8/2009	6010B	<0.005	<0.02	1.7	<0.006	280	<0.005	NL	<0.005	<0.01	<0.0002	<0.02
	8/5/2008	6010B	<0.02	0.021	1.8	<0.006	280	<0.005	NL	<0.05	<0.01	<0.0002	<0.05
	12/29/2007	6010B	<0.02	<0.02	1.9	<0.006	320	<0.005	0.0052	<0.05	<0.01	<0.0002	<0.05
MW-5	7/19/2010	6010B	1.36E-03	0.017	NL	<0.006	NL	<0.005	NL	<0.001	<0.01	<0.0002	<0.02
	3/1/10[2]	6010B	<0.005	0.024	NL	<0.006	NL	<0.005	NL	<0.005	<0.01	<0.0002	<0.02
	7/15/2009	6010B	<0.001	<0.02	1.5	<0.006	260	<0.005	NL	<0.001	<0.01	<0.0002	<0.02
	8/13/2008	6010B	<0.02	<0.02	1.4	<0.006	260	<0.005	NL	<0.05	<0.01	<0.0002	<0.02
	12/29/2007	6010B	<0.02	<0.02	1.4	<0.006	290	<0.005	0.0045	<0.05	<0.01	<0.0002	<0.02

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
1. National Primary Drinking Water Regulation (May 2009); Action Level

NOTES
Wells MW-4, MW-5, SMW-2 and SMW-4 were not sampled in 2006. Analyses for metals was not requested in 2006

8.13.4 MW-1, MW-2, MW-4, MW-5
Volatile and Semi-Volatile Organics Analytical Result Summary

			Parameters		
			Acetone (mg/L)	Diethyl phthalate (mg/L)	Bis (2-ethylphthalate) (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE
EPA RSL for Tap Water (mg/L)			22	29	0.0048
Well ID	DATE SAMPLED	METHOD			
MW-1	7/16/2010	8260/8270C	<0.01	0.00103	<0.005
	3/1/2010[2]	8260/8270C	<0.0025	NL	<0.005
	7/16/2009	8260/8270C	<0.0025	<0.01	<0.005
	8/4/2008	8260/8270C	<0.0025	<0.0005	<0.0005
	12/29/2007	8260/8270C	<0.0025	<0.01	<0.01
MW-2	3/1/2010[2]	8260/8270C	0.00273	<0.01	<0.005
	7/16/2009	8260/8270C	<0.0025	<0.01	<0.005
MW-4	3/1/2010[2]	8260/8270C	<0.0025	<0.01	<0.005
	7/19/2010	8260/8270C	<0.01	<0.01	<0.005
	7/8/2009	8260/8270C	<0.0025	NL	<0.005
	8/5/2008	8260/8270C	<0.0025	<0.0005	**6.79E-03**
	12/29/2007	8260/8270C	<0.01	<0.01	<0.01
MW-5	3/1/2010[2]	8260/8270C	0.00336	NL	<0.005
	7/19/2010	8260/8270C	<0.01	<0.01	<0.005
	7/15/2009	8260/8270C	0.00492	NL	NL
	8/13/2008	8260/8270C	<0.0025	<0.0005	<0.005
	12/29/2007	8260/8270C	<0.001	<0.01	<0.01

DEFINITIONS
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES
Wells MW-4, MW-5, SMW-2 and SMW-4 were not sampled in 2006. Analyses for metals were not conducted in 2006.
[2]This was part of the 10 year RCRA Post Closure Sampling Event

8.14 OW-11, OW-12
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			**0.01**	**0.75**	**0.75**	**0.62**	**NE**
40 CFR 141.62 MCL			**0.005**	**1**	**0.7**	**10**	**NE**
EPA RSL for Tap Water			**4.1E-04**	**2.3**	**0.0015**	**0.2**	**0.012**
Well ID	**DATE SAMPLED**	**METHOD**					
OW-11	7/28/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/27/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.0025
	8/14/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.0025
	12/27/2007	8260B	<0.001	<0.001	<0.001	<0.0015	<0.0025
	10/24/2006	8260B	<0.001	<0.001	<0.001	<0.0015	<0.0025
OW-12[1]	7/22/2010	8021B	<0.001	<0.001	<0.001	<0.002	<0.0025
	7/29/2009	8260B	<0.001	<0.001	<0.001	<0.002	<0.0025
	8/19/2008	8260B	<0.001	<0.001	<0.001	<0.002	<0.001
	12/27/2007	8260B	<0.001	<0.001	<0.001	<0.002	<0.001
	10/27/2006	8260B	<0.001	<0.001	<0.001	<0.001	<0.0025

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
1. EPA Regional Screening Level (RSL); June 2011

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES
[1] *OW-12 - Method 8260B analysis only*

8.14.1 OW-11

General Chemistry Analytical Result Summary

			Parameters								
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**1.6**	**50.0**	**NE**	**NE**	**10**	**NE**	**600.0**	**6 to 9**	**NE**
40 CFR 141.62 MCL (mg/L)			**4.0**	**NE**	**NE**	**1**	**10**	**NE**	**NE**	**NE**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**									
OW-11	7/28/2010	300.0	**2.8**	89	0.21	<0.1	0.3	<0.5	**1100**	8.39	2800
	7/27/2009	300.0	**2**	97	NL	**1.2**	1.2	<0.5	**950**	8.41	2500
	8/14/2008	300.0	**2.2**	90	0.29	0.75	0.75	<0.5	**940**	8.39	2600
	12/27/2007	300.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/24/2006	300.0	**2.5**	86	NL	<0.1	<0.1	<0.5	**1100**	8.4	3100

DEFINITIONS
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Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water
1. NMED Table 2a. TPH Screening Guidelines for Potable Ground Water (GW-1). (Oct 2006)

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES

8.14.2 OW-11

Total Metals Analytical Result Summary

			Parameters										
			Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Potassium (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Mercury (mg/L)	Uranium (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**NE**	**0.05**	**1.0**	**NE**	**0.2**	**NE**	**0.05**	**NE**	**0.002**	**0.03**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**NE**	**0.1**	**1.3[1]**	**NE**	**NE**	**NE**	**0.05**	**NE**	**0.002**	**0.03**
Well ID	**DATE SAMPLED**	**METHOD**												
OW-11	7/28/2010	6010B	<0.02	<0.02	12	<0.006	<0.006	1.3	0.016	1.8	<0.05	630	<0.0002	**0.236**
	7/27/2009	6010B	2.02E-03	<0.01	11	<0.006	<0.006	1.2	0.016	1.8	5.06E-03	640	<0.0002	**0.216**
	8/14/2008	6010B	<0.02	<0.01	11	<0.006	<0.006	1.3	0.015	1.8	<0.05	640	<0.0002	**0.249**
	12/27/2007	6010B	<0.02	<0.01	11	<0.006	<0.006	1.3	0.016	1.6	<0.05	690	<0.0002	**0.22**
	10/28/2006	6010B	<0.02	<0.02	12	<0.006	<0.006	1.4	NL	NL	<0.05	NL	<0.0002	NL

DEFINITIONS
NE = Not established
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NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

NOTES

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
1. National Primary Drinking Water Regulation (May 2009); Action Level

8.15 SMW-2, SMW-4
BTEX Analytical Result Summary

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			**0.01**	**0.75**	**0.75**	**0.62**	**NE**
40 CFR 141.62 MCL			**0.005**	**1**	**0.7**	**10**	**NE**
EPA RSL for Tap Water (June 2011)			**4.1E-04**	**2.3**	**0.0015**	**0.2**	**0.012**
Well ID	**DATE SAMPLED**	**METHOD**					
SMW-2	7/16/2010	8260B	<0.001	<0.001	<0.001	<0.0015	0.0088
	7/27/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	8/14/2008	8260B	<0.005	<0.001	<0.001	<0.0015	<0.001
	1/1/2008[1]	8260B	<0.001	<0.001	<0.001	<0.0015	0.0099
SMW-4	7/16/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	7/27/2009	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001
	8/14/2008	8260B	<0.005	<0.001	<0.001	<0.0015	<0.001
	12/29/2007	8260B	<0.001	<0.001	<0.001	<0.0015	<0.001

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other Standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES
Wells MW-4, MW-5, SMW-2 and SMW-4 were not sampled in 2006. Analyses for metals were not conducted in 2006.
[1] *Due to inclement weather in December 2007, annual samples were not collected until January 2008*

8.15.1 SMW-2, SMW-4
General Chemistry Analytical Result Summary

			Parameters										
			Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrite (mg/L)	Nitrate (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	pH	Specific Conductance (mg/L)	DRO (mg/L)	GRO (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			1.6	250.0	NE	NE	10	NE	600.0	6 TO 9	NE	0.2[1]	NE
40 CFR 141.62 MCL (mg/L)			4.0	NE	NE	1	10	NE	NE	NE	NE	NE	NE
Well ID	**DATE SAMPLED**	**METHOD**											
SMW-2	7/16/2010	300.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	<1.0	<0.05
	7/27/2009	300.0	0.32	**2300**	NL	<10	<10	<2.5	**1700**	7.61	7700	<1.0	0.73
	8/14/2008	300.0	0.36	**2000**	3.1	<1.0	<1.0	<0.5	**1600**	7.25	8700	<1.0	0.36
	1/1/2008[2]	300.0	0.36	**2000**	NL	<2.0	<2.0	<0.5	**1600**	7.29	9200	<1.0	0.69
SMW-4	7/16/2010	300.0	NR	NR	NR	NR	NR	NR	NR	NR	NR	<1.0	<0.05
	3/10/2010[3]	8015B	NR	NR	NR	NR	NR	NR	NR	NR	NR	<1.0	<0.05
	1/0/1900	300.0	1.2	58	NL;	<1.0	<1.0	<0.5	170	8.53	1300	<1.0	0.69
	8/14/2008	300.0	1.1	52	0.15	0.11	0.11	<0.5	150	8.63	1200	<1.0	<0.05
	12/29/2007	300.0	1.4	60	NL	<1.0	<1.0	<0.5	180	8.34	1300	<1.0	<0.05

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STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water
1. NMED Table 2a. TPH Screening Guidelines for Potable Ground Water (GW-1). (Oct 2006)

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES
Wells MW-4, MW-5, SMW-2 and SMW-4 were not sampled in 2006. Analyses for metals were not conducted in 2006.
[2] *Due to inclement weather in December 2007, annual samples were not collected until January 2008*
[3] *This was part of the 10 year RCRA Post Closure sampling event*

8.15.2 SMW-2, SMW-4
Total Metals Analytical Result Summary

			Parameters								
			Arsenic (mg/L)	Barium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Selenium (mg/L)	Cyanide (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**0.1**	**1.0**	**NE**	**0.05**	**NE**	**NE**	**NE**	**0.05**	**0.02**	**10**
40 CFR 141.62 MCL (mg/L)			**0.01**	**2.0**	**NE**	**0.1**	**NE**	**NE**	**NE**	**0.05**	**0.02**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**										
SMW-2	7/16/2010	6010B	0.0035	0.022	NL	**0.093**	NL	NL	NL	<0.001	**0.0525**	<0.02
	7/27/2009	6010B	0.00384	0.016	220	<0.006	68	1.1	2000	4.7E-03	**0.0662**	<0.02
	8/14/2008	6010B	<0.02	<0.02	200	0.0092	64	<1.0	1900	<0.05	**0.0617**	0.11
	1/1/2008[1]	6010B	<0.02	<0.02	200	**0.055**	69	1.1	2200	<0.05	**0.0651**	0.11
SMW-4	7/16/2010	6010B	0.00333	0.027	NL	<0.006	NL	NL	NL	<0.001	<0.01	<0.02
	3/10/10[2]	6010B	<0.005	0.035	NL	0.0082	NL	NL	NL	<0.005	<0.01	NL
	7/27/2009	6010B	0.00297	0.028	4.4	0.0075	1.4	<1.0	310	<0.001	<0.01	<0.02
	8/14/2008	6010B	<0.02	<0.02	3	<0.006	61	<1.0	280	<0.001	<0.01	<0.05
	12/29/2007	6010B	<0.02	0.024	4.6	<0.006	1.2	<1.0	340	<0.001	<0.01	<0.05

DEFINITIONS
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Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES
Wells MW-4, MW-5, SMW-2 and SMW-4 were not sampled in 2006. Analyses for metals were not conducted in 2006.
[1] *Due to inclement weather in December 2007, annual samples were not collected until January 2008*
[2] *This was part of the 10 year RCRA Post Closure Sampling requirement, Total Recoverable Metals Analysis*

8.15.3 SMW-2, SMW-4

Volatile and Semi-Volatile Organics Analytical Result Summary

			Parameters					
			Acetone (mg/L)	bis(2-Ethylhexyl) phthalate (mg/L)	Diethylphthalate (mg/L)	Phenol (mg/L)	1,4-Dioxane (mg/L)	Benzenethiole (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	NE
EPA RSL (mg/L)			22	0.0048	29	11	NE	NE
Well ID	**DATE SAMPLED**	**METHOD**						
SMW-2	7/16/2010	8260B/8270C	<0.01	<0.0001	0.00189	<0.001	NL	<0.0005
	7/27/2009	8260B/8270C	6.25E-03	<0.0001	<0.0001	<0.001	<0.001	<0.0005
	11/13/2008	8260B/8270C	7.53E-03	<0.0001	<0.0001	<0.001	<.001	<0.0005
	8/14/2008	8260B/8270C	7.53E-03	<0.0005	5.70E-04	<0.0001	0.0136	<0.0001
	1/1/2008[1]	8260B/8270C	<0.01	<0.0001	<0.0001	<0.0001	0.0148	1.9E-04
SMW-4	7/16/2010	8260B/8270C	<0.01	<0.0001	<0.0001	<0.001	NL	<0.0005
	3/10/2010[3]	8260B/8270C	<0.0025	<0.005	<0.01	<0.01	<0.005	<0.005
	7/27/2009	8260B/8270C	<0.0025	0.00105	0.00148	<0.001	<0.001	<0.0005
	8/14/2008	8260B/8270C	NA	<0.0001	0.0005	1.13E-03	<0.005	<0.0001
	12/29/2007	8260B/8270C	<0.01	<0.0001	<0.0001	<0.0001	<0.005	<0.0001

DEFINITIONS
NE = Not established
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES
[1] *Due to inclement weather in December 2007, annual samples were not collected until January 2008*
[2] *This was part of the 10 year RCRA Post Closure Sampling requirement, Total Recoverable Metals Analysis Wells MW-4, MW-5, SMW-2 and SMW-4 were not sampled in 2006. Analyses for metals were not conducted in 2006.*

8.16 BTEX Analytical Result Summary
PW-2, PW-3, PW-4

			Parameters				
			Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)
WQCC 20NMAC 6.2.3103			0.01	0.75	0.75	0.62	NE
40 CFR 141.62 MCL			0.005	1	0.7	10	NE
EPA RSL for Tap Water (June 2011)			4.1E-04	2.3	0.0015	0.2	0.012
Well ID	**DATE SAMPLED**	**METHOD**					
PW-2	9/12/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.01
	12/9/2004	8260B	<0.001	<0.001	<0.001	<0.0015	NA
PW-3	9/23/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.01
	8/21/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.01
	1/1/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.01
	10/27/2006	8260B	<0.001	<0.001	<0.001	<0.0015	<0.01
PW-4	7/28/2010	8260B	<0.001	<0.001	<0.001	<0.0015	<0.01
	9/12/2008	8260B	<0.001	<0.001	<0.001	<0.0015	<0.01
	8/4/2004	8260B	<0.001	<0.001	<0.001	<0.0015	NA

DEFINITIONS
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STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other Standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

EPA Regional Screening Level (RSL) Summary Table, June 2011

NOTES

8.16.1 PW-2, PW-3, PW-4
General Chemistry Analytical Result Summary

			Parameters	
			Nitrite (mg/L)	Nitrate (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	10
40 CFR 141.62 MCL (mg/L)			1	10
Well ID	**DATE SAMPLED**	**METHOD**		
PW-2	9/12/2008	ANIONS	<1.0	<1.0
PW-3	9/23/2010	ANIONS	<1.0	<1.0
	8/21/2008	ANIONS	<0.01	0.13
	1/1/2008	ANIONS	<0.2	<0.2
	10/27/2006	ANIONS	<0.2	<0.2
PW-4	7/28/2010	ANIONS	<0.01	0.14
	9/12/2008	ANIONS	<0.01	<0.02

DEFINITIONS
NE = Not established
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NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other Standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants

NOTES
Method 300 Anions analysis only

.2 PW-2, PW-3, PW-4
Semi-Volatile Organic Analytical Result Summary

			Parameters					
			2,4-Dimethylphenol (mg/L)	2-Methylnaphthalene (mg/L)	2-Methylphenol (mg/L)	3+4-Methylphenol (mg/L)	Phenanthrene (mg/L)	Phenol (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			NE	NE	NE	NE	NE	0.005
EPA RSL for Tap Water (mg/L)			0.73	0.15	NE	NE	NE	NE
Well ID	DATE SAMPLED	METHOD						
PW-3	11/1/2010[1]	8270C	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	9/23/2010[2]	8270C	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	8/21/2008	8270C	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	1/1/2008[3]	8270C	0.016	0.032	0.21	0.36	0.017	0.8

DEFINITIONS
NE = Not establishes
NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or less.
a) Human Health Standards; b) Other Standards for Domestic Water

EPA Regional Screening Level (RSL) Summary Table (June 2011)

NOTES
[1]Method 8270C analysis was re-sampled due to Hall Lab note stating sample for 8270 was extracted past the 7 day holding time.
[2]Method 8270C sample was extracted past the 7 day holding time.
[3]Due to inclement weather conditions in December 2007, the 2007 annual sampling was completed in January 2008.

8.16.3 PW-2, PW-3, PW-4
Total Metals Analytical Result Summary

			Parameters									
			Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Cyanide (mg/L)	Uranium (mg/L)	Zinc (mg/L)
WQCC 20NMAC 6.2.3103 (mg/L)			**1.0**	**0.01**	**0.05**	**1.0**	**1.0**	**0.05**	**0.2**	**0.2**	**0.03**	**10**
40 CFR 141.62 MCL (mg/L)			**2.0**	**0.005**	**0.1**	**1.3[1]**	**NE**	**0.015[1]**	**NE**	**0.2**	**0.03**	**NE**
Well ID	**DATE SAMPLED**	**METHOD**										
PW-2	9/12/2008	6010B	<0.02	<0.002	<0.006	<0.006	0.07	<0.005	<0.00202	<0.005	0.0016	<0.05
PW-3	9/23/2010	6010B	<0.02	<0.002	<0.006	0.032	0.47	0.0074	0.0046	<0.005	0.001	0.037
	8/21/2008	6010B	<0.02	<0.002	<0.006	<0.006	<0.05	<0.005	<0.0002	<0.004	<0.01	<0.05
	1/1/2008	6010B	0.014	<0.002	<0.006	<0.006	0.2	0.0056	0.015	<0.01	<0.1	0.041
	10/27/2006	6010B	<0.02	<0.002	<0.006	<0.006	<0.05	<0.005	<0.0002	<0.01	<0.1	<0.05
PW-4	7/28/2010	6010B	<0.02	<0.002	<0.006	<0.006	0.23	<0.005	0.044	<0.01	0.0021	<0.02
	9/12/2008	6010B	0.013	<0.002	<0.006	<0.006	0.11	<0.005	<0.0002	<0.01	0.0014	<0.02

DEFINITIONS
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NA = Not analyzed
NL = Not listed on laboratory analysis
NR = Not requested
Bold and highlighted values represent values above the applicable standards

STANDARDS
WQCC 20 NMAC 6.2.3103 - Standards for Ground Water of 10,000 mg/l TDS Concentration or Less.
a) Human Health Standards; b) Other Standards for Domestic Water

40 CFR 141.62 Detection Limits for Inorganic Contaminants
[1]. National Primary Drinking Water Regulation (May 2009); Action Level

NOTES

9.0 Well Summary Table

The Well Data Summary Table was submitted with current survey measurements provided by DePauli Engineering on August 1, 2010 to NMED-HWB. The revised data table was disapproved and will be revised as requested by correspondence received from NMED-HWB on August 22, 2011. A "Notice of Disapproval Requirement to Resurvey Ground Water Monitoring Wells and Recovery Wells" was received by Western and is currently addressing the comments listed in the disapproval. Per NMED-HWB request a work plan will be submitted on or before December 30, 2011.

10.0 Figures

Figure 1. Regional Map 1

Figure 1: Regional map showing the location of the Gallup Refinery (red star along Interstate-40, 20 miles east of the City of Gallup).

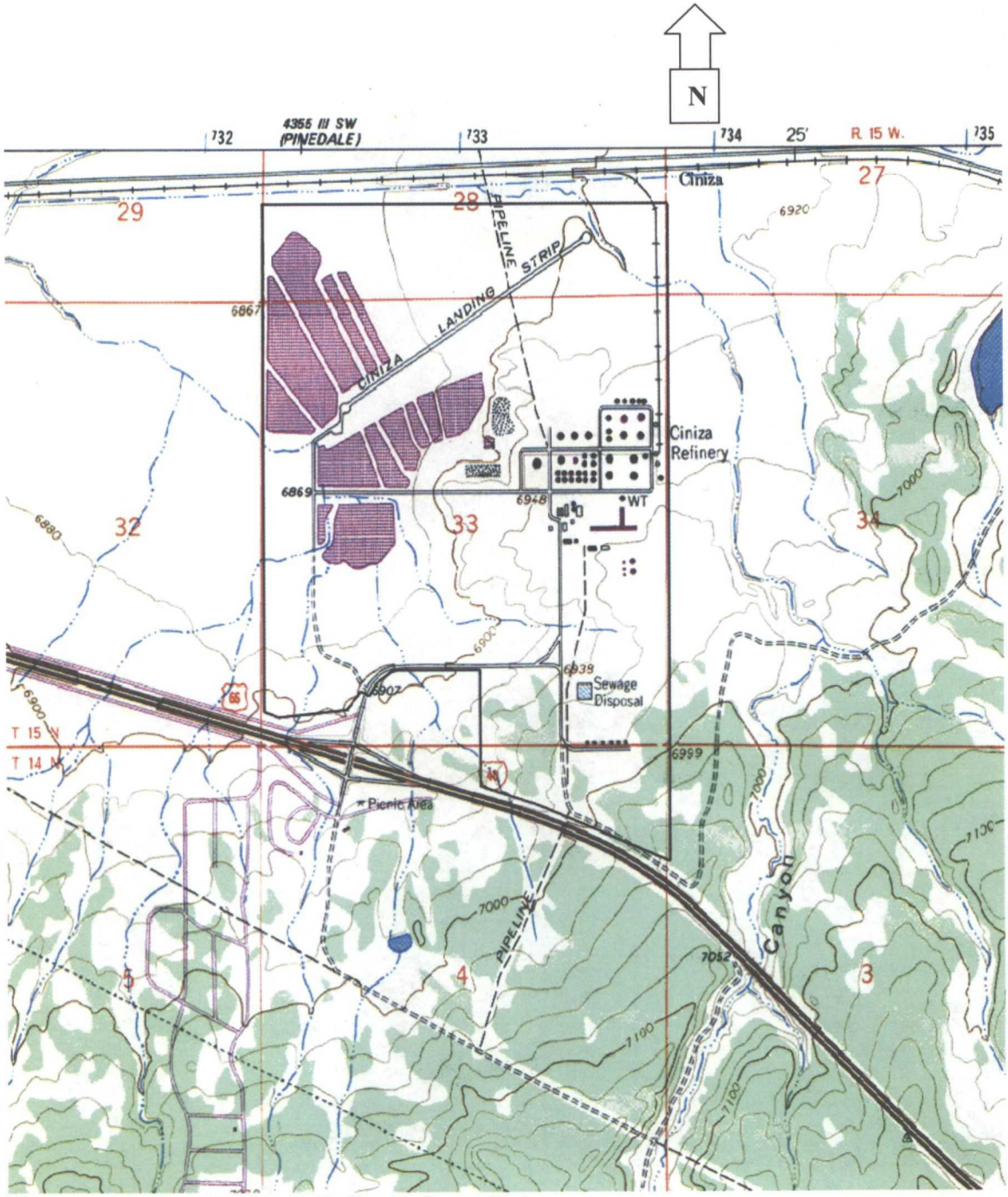


Figure 2. Topographic Map 1 (Gallup Refinery Site)

USGS Topographical Map - Gallup Quadrangle (Revised 1980)

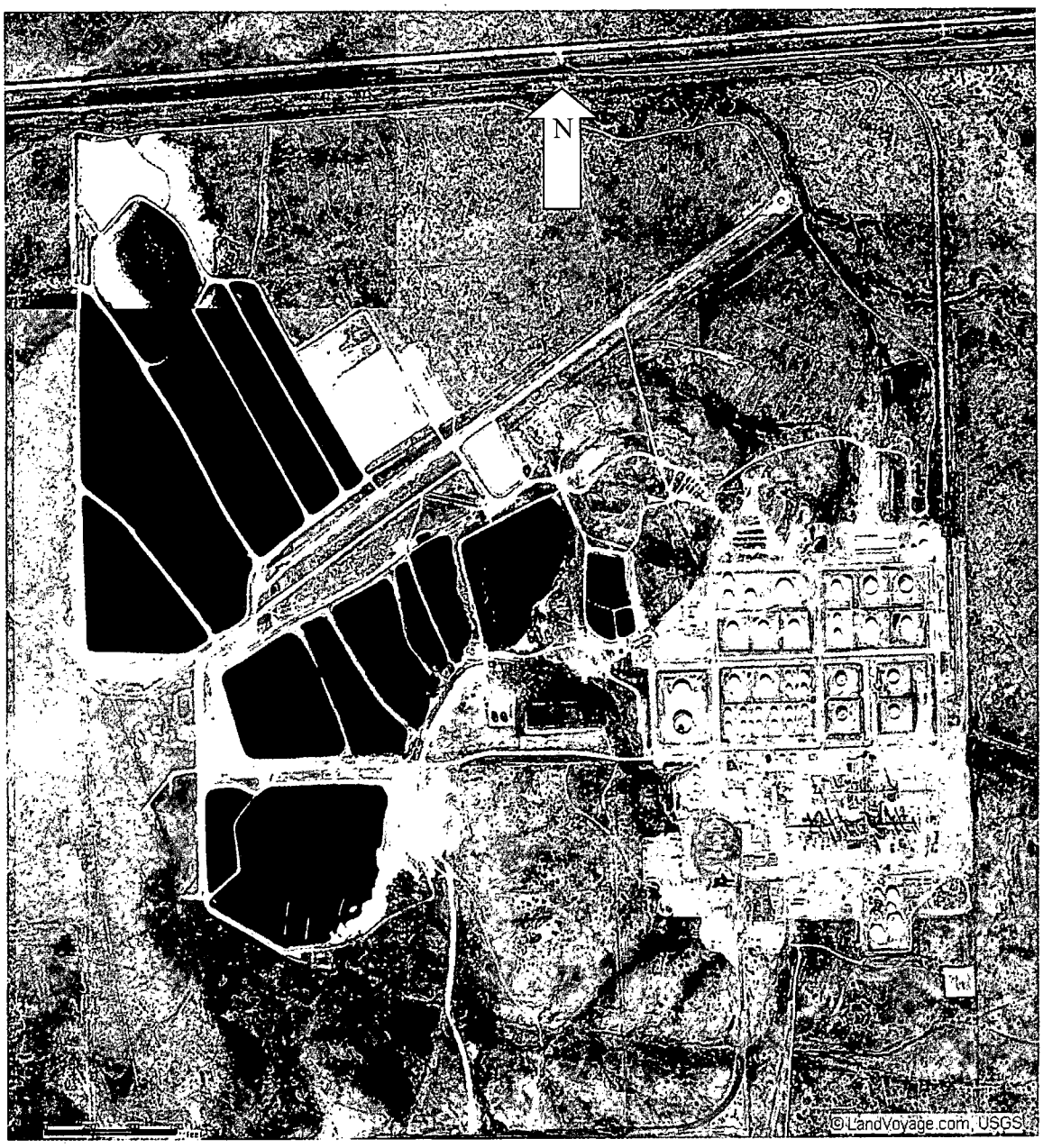


Figure 3. Aerial Photograph 1 (Gallup Refinery)

Flow lines and major surface water bodies (from: EPA Enviromapper - http://map24.epa.gov/EMR/?ZoomToWatershed=15020006) North is towards the top of the page.

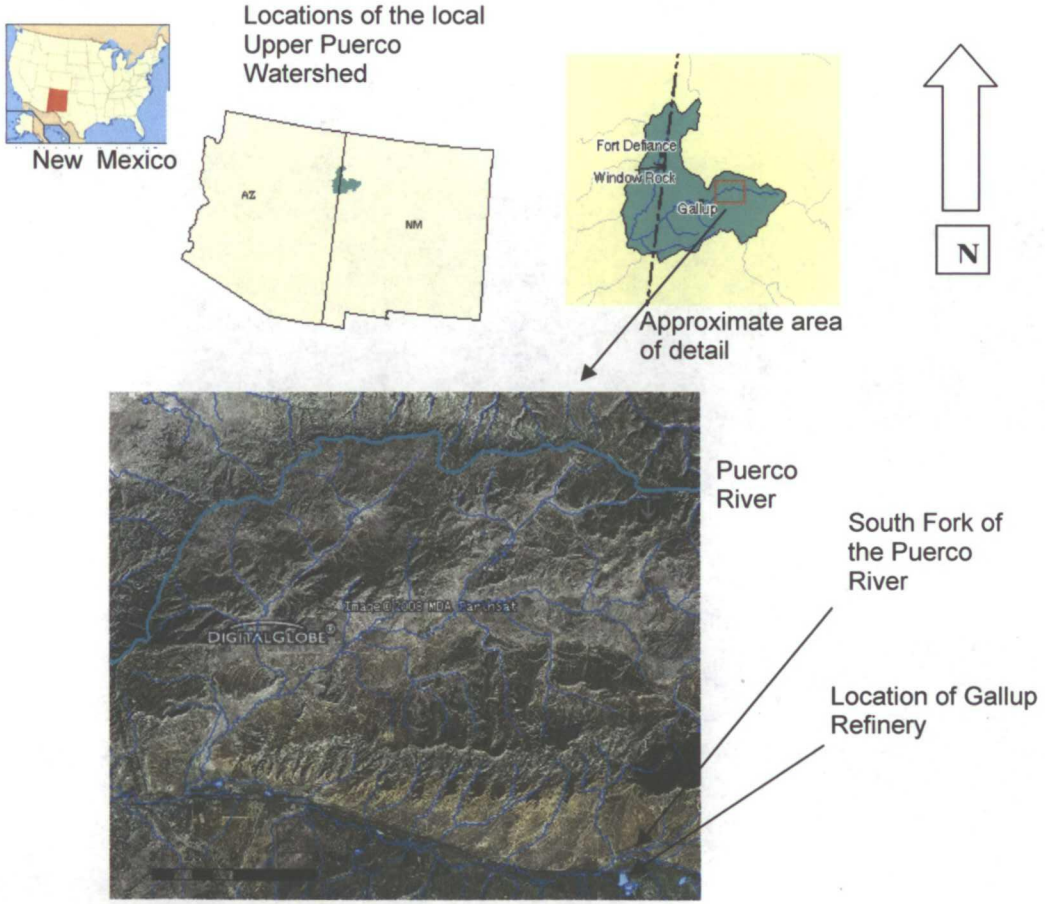
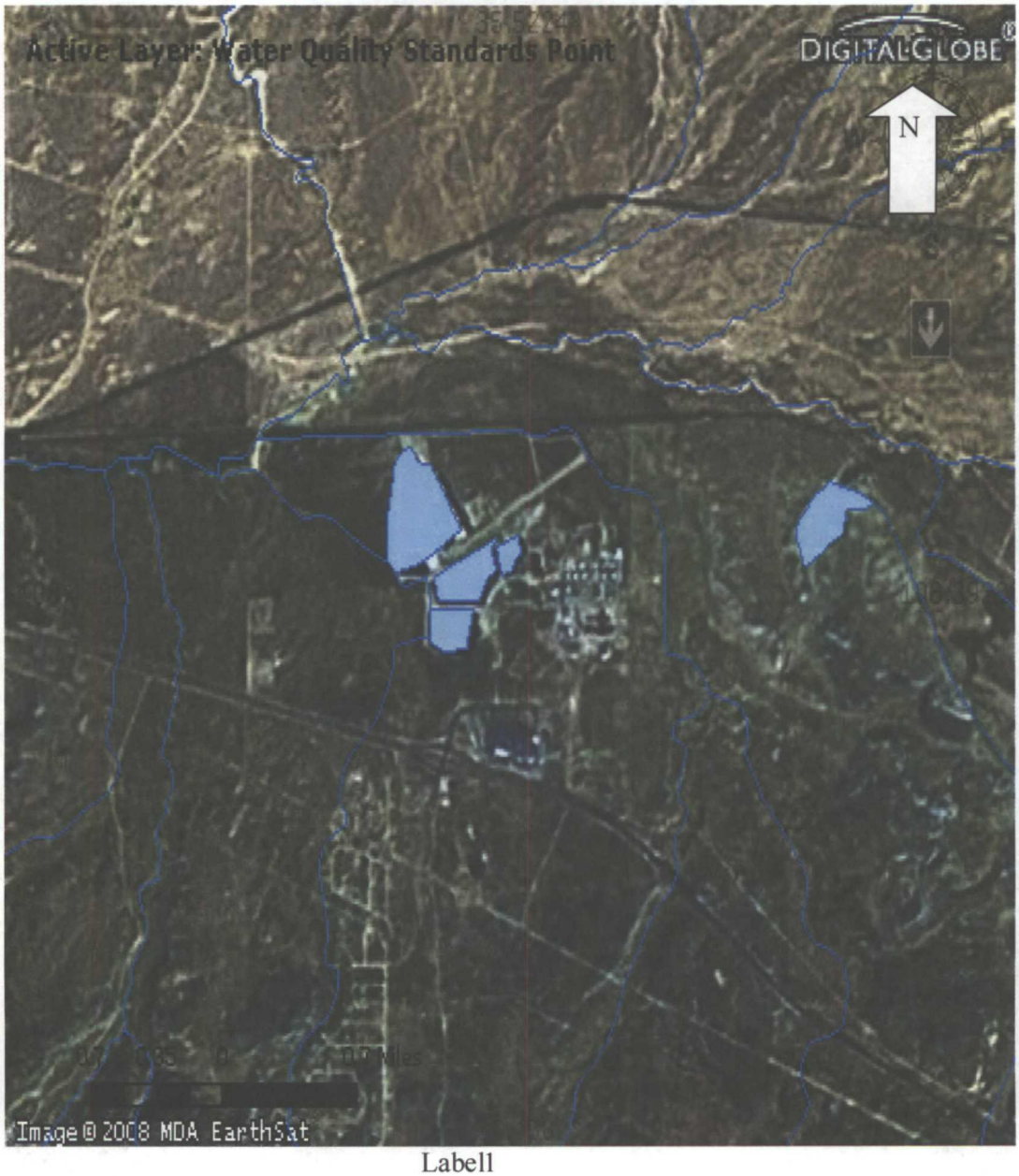


Figure 4. Regional Scale. 1 (Flow Lines and Major Surface Water Bodies)



Labell

Figure 5. Localized Scale 1 (Flow lines and major surface water bodies)

(from: EPA Enviromapper - http://map24.epa.gov/EMR/?ZoomToWatershed=15020006) North is towards the top of the page. The pond to the east is Jon Myers' Livestock Pond.

Appendix A
Table 1A
RW-1 HYDROCARBON RECOVERY LOG
Western Refining - Gallup Refinery
2/22/05 thru 11/3/10

Measurement Date	Time	Quarter	Method	Status	Depth to Product (ft)	Depth to Water (ft)	Product Thickness Level (ft)	Product Bailed/Purged (gal)	Water Purged (gal)
2/22/2005	0830	1st	NR	Start	32.46	36.5	4.04	14	NR
3/2/2005	0745	1st	NR	Start	32.42	36.44	4.02	9	NR
3/8/2005	0830	1st	NR	Start	31.92	36.35	4.43	15	NR
3/9/2005	0830	1st	NR	Start	31.92	37.5	5.58	4	NR
3/11 to 3/18/05	NR	1st	NR	Start	NR	NR	NR	74	NR
3/18 to 3/23/05	NR	1st	Pump	Continue pumping	NR	NR	NR	48	NR
3/23 to 4/1/05	NR	1st	Pump	Continue pumping	NR	NR	NR	62	NR
4/1 To 4/4/05		2nd	Pump	Pump shutdown to measure	NR	NR	NR	27	NR
4/5/2005	11:30	2nd	Pump		34.75	38.92	4.17	NR	NR
4/4 to 4/15/05	11:00	2nd	Pump	Continue pumping	NR	NR	NR	50	NR
4-15 to 5-5-05	1230	2nd	Pump	Continue pumping	NR	NR	NR	45	154
5-5 to 6-17-05	1130	2nd	Pump	Continue pumping	NR	NR	NR	24	196
6/27/2005	1400	2nd		Pump shutdown to measure	NR	NR	NR	NR	NR
6/28/2005	1100	2nd			32.46	33.25	33	NR	NR
6/28/2005		2nd	Pump	Continue pumping	NR	NR	NR	NR	NR
6/17 to 7/8/2005	1030	2nd	Pump	Continue pumping	NR	NR	NR	18	146
7/8 to 8/9/2005	1330	3rd	Pump	Continue pumping	NR	NR	NR	28	350
8/9 to 9/16/2005	1135	3rd			36.46	36.54	0.08	8	240
12/5/2005	1315	4th			31.92	34.71	2.79	NR	NR
12/8/2005	1400	4th	Pump	Start	NR	NR	NR	NR	NR
12/22/2005	1530	4th		stop	NR	NR	NR	5	120
12/29/2005	1400	4th	Bailer	Hand bailed	NR	NR	NR	0.5	4.5
3/16/2006	1300	1st.			NR	NR	NR	NR	NR
3/16/2006	1430	1st.	Pump	Start	32.23	34.48	2.25	NR	NR
3/23/2006	1430	1st.		Stop	NR	NR	NR	NR	NR
3/27/2006	1530	1st.	Pump	Start	NR	NR	NR	NR	NR

Appendix A
Table 1A

Measurement Date	Time	Quarter	Method	Status	Depth to Product (ft)	Depth to Water (ft)	Product Thickness Level (ft)	Product Bailed/Purged (gal)	Water Purged (gal)
3/31/2006	1130	1st.	Pump	Continue pumping	NR	NR	NR	7	174
4/3/2006	1130	2nd		Stop	NR	NR	NR	1	38
4/4/2006	1100	2nd			32.75	33.08	0.33	NR	NR
6/6/2006	1300	2nd			32.39	34.54	2.15	NR	NR
6/8/2006	1500	2nd	Pump	Start	NR	NR	NR	NR	NR
6/29/2006	1000	2nd		Stop	NR	NR	NR	8	365
7/31/2006	1145	3rd			33.06	33.48	0.42	NR	NR
7/31/2006	1145	3rd	Pump	Start pump	NR	NR	NR	NR	NR
8/3/2006	1420	3rd		Stopped pump	NR	NR	NR	2	87
8/8/2006	0900	3rd	Pump	Start pump	NR	NR	NR	NR	NR
8/10/2006	1530	3rd	Pump	Start pump	NR	NR	NR	NR	NR
8/22/2006	0900	3rd		Stopped. Pulled pump	NR	NR	NR	4.9	373
8/22/2006	0945	3rd	Pump	Start pump	33.1	33.4	0.3	NR	NR
12/21/2006	1555	4th	Pump	Start pump	35.2	36	0.8	0.62	70
2/21/2007	1015	1st.	Pump	Start pump	33.42	34.6	1.18	0.63	53.5
6/5/2007	1000	2nd		Compressor Down	32.42	32.71	0.29	NR	NR
6/5/2007	1010	2nd		Hand Bailed	NR	NR	NR	0.05	9
6/6/2007	0840	2nd		Hand bailed	NR	NR	NR	0.1	11
6/13/2007	1400	2nd		Hand bailed	NR	NR	NR	0.1	12
6/14/2007	1040	2nd		Hand bailed	NR	NR	NR	0.05	8
7/10/2007	1008	3rd		Hand bailed	32.42	32.71	0.29	0.3	18
7/11/2007	0925	3rd		Hand bailed	NR	NR	NR	0.21	NR
7/23/2007	1000	3rd		Hand bailed	NR	NR	NR	0.1	NR
11/26/2007	1050	4th		Hand bailed	30.76	36.45	5.69	0.18	37
2/18/2008	1532	1st.		Hand Bailed - pump frozen	30.18	34.77	4.59	1.66	36
5/21/2008	1410	2nd	Pump	Used Pump	30.33	34.57	4.24	1.39	51
9/12/2008[1]	1430	3rd		Bladder pump malfunctioned	30.03	34.59	4.56	Not Bailed	
11/13/2008	1300	4th	Pump	Used Pump	30.02	34.63	4.61	0.94	65
2/11/2009	1405	1st.	Pump	Used Pump	30.21	31.72	1.51	0.29	90
5/5/2009	1130	2nd	Pump	Used Pump	30.22	30.8	0.58	0.41	76

Appendix A
Table 1A

Measurement Date	Time	Quarter	Method	Status	Depth to Product (ft)	Depth to Water (ft)	Product Thickness Level (ft)	Product Bailed/Purged (gal)	Water Purged (gal)
8/10/2009	0922	3rd	Pump	Used Pump	30.69	31.02	0.33	0.89	98
10/28/2009	1055	4th	Pump	Used Pump	30.56	30.75	0.19	0.19	74
3/3/2010	0900	1st	Pump	Used Pump	30.89	31.05	0.16	0.21	31
6/3/2010	1310	2nd	Pump	Used Pump	30.99	31.09	0.1	0.1	32
9/20/2010	1400	3rd	Pump	Used Pump	29.91	30.06	0.15	0.25	34
11/3/2010	0910	4th	Pump	Used Pump	30.89	31.01	0.12	0.1	31

NOTES:
FT - Feet
Gal - Gallon
NR: Not Recorded
[1] *Tried to start bladder pump and found that pump diaphragm was torn. Pump non-repairable. Ordered new pump*

Appendix A
Table 1B
RW-1 Summary of Total Product Removed and Total Water Purged per year

Western Refining - Gallup Refinery
2/22/05 thru 11/3/10

Year	Product Bailed/Purged (gal)	Water Purged (gal)
2005	431.5	1210.5
2006	23.52	1107
2007	1.72	148.5
2008	3.99	152
2009	1.78	338
2010	0.66	128
TOTAL	**463.17**	**3084**

requested. The secretary may hold a hearing on the appeal. In any such appeal hearing, the procedures of 20.1.4 NMAC shall not apply. The department shall give notice of the appeal hearing at least 30 days prior to the hearing. The notice shall state the date, time, and location of the appeal hearing and shall include the pertinent information listed in Subparagraphs (b), (c), and (d) of Paragraph (2) of Subsection E of 20.6.2.2003 NMAC. The secretary shall appoint a hearing officer to preside over the appeal hearing. Any person may present oral or written statements, data, technical information, legal arguments, or other information on the certification or denial during the appeal hearing. Any person may present oral or written statements, data, technical information, legal arguments, or other information in rebuttal of that presented by another person. Reasonable time limits may be placed on oral statements, and the submission of written statements may be required. The hearing officer may question persons presenting oral testimony. Cross examination of persons presenting oral statements shall not otherwise be allowed. Within 30 days after the completion of the hearing, or such other time as the secretary may order given the complexities of the case, the hearing officer shall submit recommendations to the secretary. The secretary shall issue a final decision on the appeal within 30 days after receiving the recommendation, or such other time as the secretary may order given the complexities of the case.

I. Pursuant to the New Mexico Water Quality Act, NMSA 1978, Section 74-6-5(O), any person who is adversely affected by the secretary's final decision may file with the commission a petition for review of that decision based on the administrative record.

[20.6.2.2003 NMAC - N, 5-18-11]

20.6.2.2004 - 20.6.2.2099: [RESERVED]

[12-1-95; 20.6.2.2001 - 20.6.2.2099 NMAC - Rn, 20 NMAC 6.2.I.1221-2099, 1-15-01; A, 5-18-11]

20.6.2.2100 APPLICABILITY: The requirements of Section **20.6.2.2101** and 20.6.2.2102 NMAC shall not apply to any discharge which is subject to a permit under the National Pollutant Discharge Elimination System of P. L. 92-500; provided that any discharger who is given written notice of National Pollutant Discharge Elimination System permit violation from the Administrator of the Environmental Protection Agency and who has not corrected the violation within thirty days of receipt of said notice shall be subject to Section **20.6.2.2101** and 20.6.2.2102 NMAC until in compliance with the National Pollution Discharge Elimination System permit conditions; provided further that nothing in this Part shall be construed as a deterrent to action under Section 74-6-11 NMSA, 1978.

[8-13-76; 20.6.2.2100 NMAC - Rn, 20 NMAC 6.2.II.2100, 1-15-01]

20.6.2.2101 GENERAL REQUIREMENTS:

A. Except as otherwise provided in Sections 20.6.2.2000 through 20.6.2.2201 NMAC, no person shall cause or allow effluent to discharge to a watercourse if the effluent as indicated by:

(1) any two consecutive daily composite samples;

(2) more than one daily composite sample in any thirty-day period (in which less than ten (10) daily composite samples are examined);

(3) more than ten percent (10%) of the daily composite samples in any thirty-day period (in which ten (10) or more daily composite samples are examined); or

(4) a grab sample collected during flow from an intermittent or infrequent discharge

does not conform to the following:

(a)	Bio-chemical Oxygen Demand (BOD)	Less than 30 mg/l
(b)	Chemical Oxygen Demand (COD)	Less than 125 mg/l
(c)	Settleable Solids	Less than 0.5 mg/l
(d)	Fecal Coliform Bacteria	Less than 500 organisms per 100 ml
(e)	pH	Between 6.6 and 8.6

B. Upon application, the secretary may eliminate the pH requirement for any effluent source that the secretary determines does not unreasonably degrade the water into which the effluent is discharged.

C. Subsection A of this Section does not apply to the weight of constituents in the water diverted.

D. Samples shall be examined in accordance with the most current edition of Standard Methods for the Examination of Water and Wastewater published by the American Public Health Association or the most current edition of Methods for Chemical Analysis of Water and Wastes published by the Environmental Protection Agency, where applicable.

[4-20-68, 3-14-71, 10-8-71, 8-13-76, 2-20-81, 12-1-95; **20.6.2.2101** NMAC - Rn, 20 NMAC 6.2.II.2101, 1-15-01]

20.6.2.2102 RIO GRANDE BASIN--COMMUNITY SEWERAGE SYSTEMS:

A. No person shall cause or allow effluent from a community sewerage system to discharge to a watercourse in the Rio Grande Basin between the headwaters of Elephant Butte Reservoir and Angostura Diversion Dam as described in Subsection E of this Section if the effluent, as indicated by:

(1) any two consecutive daily composite samples;

(2) more than one daily composite sample in any thirty-day period (in which less than ten (10) daily composite samples are examined);

(3) more than ten percent (10%) of the daily composite samples in any thirty-day period (in which ten (10) or more daily composite samples are examined); or

(4) a grab sample collected during flow from an intermittent or infrequent discharge

does not conform to the following:

(a)	Bio-chemical Oxygen Demand (BOD)	Less than 30 mg/l
(b)	Chemical Oxygen Demand (COD)	Less than 80 mg/l
(c)	Settleable Solids	Less than 0.1 mg/l
(d)	Fecal Coliform Bacteria	Less than 500 organisms per 100 ml
(e)	pH	Between 6.6 and 8.6

B. Upon application, the secretary may eliminate the pH requirement for any effluent source that the secretary determines does not unreasonably degrade the water into which the effluent is discharged.

C. Subsection A of this Section does not apply to the weight of constituents in the water diverted.

D. Samples shall be examined in accordance with the most current edition of Standard Methods for the Analysis of Water and Wastewater published by the American Public Health Association or the most current edition of Methods for Chemical Analysis of Water and Wastes published by the Environmental Protection Agency, where applicable.

E. The following is a description of the Rio Grande Basin from the headwaters of Elephant Butte Reservoir to Angostura Diversion Dam as used in this Section. Begin at San Marcial USGS gauging station, which is the headwaters of Elephant Butte Reservoir Irrigation Project, thence northwest to U.S. Highway 60, nine miles ± west of Magdalena; thence west along the northeast edge of the San Agustin Plains closed basin; thence north along the east side of the north plains closed basin to the Continental Divide; thence northly along the Continental Divide to the community of Regina on State Highway 96; thence southeasterly along the crest of the San Pedro Mountains to Cerro Toledo Peak; thence southwesterly along the Sierra de Los Valles ridge and the Borrego Mesa to Bodega Butte; thence southerly to Angostura Diversion Dam which is the upper reach of the Rio Grande in this basin; thence southeast to the crest and the crest of the Manzano Mountains and the Los Pinos Mountains; thence southerly along the divide that contributes to the Rio Grande to San Marcial gauging station to the point and place of beginning; excluding all waters upstream of Jemez Pueblo which flow into the Jemez River drainage and the Bluewater Lake. Counties included in the basin are:

(1) north portion of Socorro County;
(2) northeast corner of Catron County;
(3) east portion of Valencia County;
(4) west portion of Bernalillo County;
(5) east portion of McKinley County; and
(6) most of Sandoval County.

[3-14-71, 9-3-72, 8-13-76, 2-20-81, 12-1-95; 20.6.2.2102 NMAC - Rn, 20 NMAC 6.2.II.2102, 1-15-01]

20.6.2.2103 - 20.6.2.2199: [RESERVED]
[12-1-95; 20.6.2.2103 - 20.6.2.2199 NMAC - Rn, 20 NMAC 6.2.II.2103-2199, 1-15-01]

20.6.2.2200 WATERCOURSE PROTECTION:
[12-1-95; 20.6.2.2200 NMAC - Rn, 20 NMAC 6.2.II.2200, 1-15-01]

20.6.2.2201 DISPOSAL OF REFUSE: No person shall dispose of any refuse in a natural watercourse or in a location and manner where there is a reasonable probability that the refuse will be moved into a natural watercourse by leaching or otherwise. Solids diverted from a stream and returned thereto are not subject to abatement under this Section.
[4-20-68, 9-3-72; 20.6.2.2201 NMAC - Rn, 20 NMAC 6.2.II.2201, 1-15-01]

20.6.2.2202 - 20.6.2.2999: [RESERVED]
[12-1-95; 20.6.2.2202 - 20.6.2.2999 NMAC - Rn, 20 NMAC 6.2.II.2202-3100, 1-15-01]

20.6.2.3000 PERMITTING AND GROUND WATER STANDARDS:
[12-1-95; 20.6.2.3000 NMAC - Rn, 20 NMAC 6.2.III, 1-15-01]

20.6.2.3001 - 20.6.2.3100: [RESERVED]
[12-1-95; 20.6.2.3001 - 20.6.2.3100 NMAC - Rn, 20 NMAC 6.2.II.2202-3100, 1-15-01]

20.6.2.3101 PURPOSE:

A. The purpose of Sections 20.6.2.3000 through 20.6.2.3114 NMAC controlling discharges onto or below the surface of the ground is to protect all ground water of the state of New Mexico which has an existing concentration of 10,000 mg/l or less TDS, for present and potential future use as domestic and agricultural water supply, and to protect those segments of surface waters which are gaining because of ground water inflow, for uses designated in the New Mexico Water Quality Standards. Sections 20.6.2.3000 through 20.6.2.3114 NMAC are written so that in general:

(1) if the existing concentration of any water contaminant in ground water is in conformance with the standard of 20.6.2.3103 NMAC, degradation of the ground water up to the limit of the standard will be allowed; and

(2) if the existing concentration of any water contaminant in ground water exceeds the standard of Section 20.6.2.3103 NMAC, no degradation of the ground water beyond the existing concentration will be allowed.

B. Ground water standards are numbers that represent the pH range and maximum concentrations of water contaminants in the ground water which still allow for the present and future use of ground water resources.

C. The standards are not intended as maximum ranges and concentrations for use, and nothing herein contained shall be construed as limiting the use of waters containing higher ranges and concentrations.
[2-18-77; 20.6.2.3101 NMAC - Rn, 20 NMAC 6.2.III.3101, 1-15-01]

20.6.2.3102: [RESERVED]
[12-1-95; 20.6.2.3102 NMAC - Rn, 20 NMAC 6.2.III.3102, 1-15-01]

20.6.2.3103 STANDARDS FOR GROUND WATER OF 10,000 mg/l TDS CONCENTRATION OR LESS: The following standards are the allowable pH range and the maximum allowable concentration in ground water for the contaminants specified unless the

existing condition exceeds the standard or unless otherwise provided in Subsection D of Section 20.6.2.3109 NMAC. Regardless of whether there is one contaminant or more than one contaminant present in ground water, when an existing pH or concentration of any water contaminant exceeds the standard specified in Subsection A, B, or C of this section, the existing pH or concentration shall be the allowable limit, provided that the discharge at such concentrations will not result in concentrations at any place of withdrawal for present or reasonably foreseeable future use in excess of the standards of this section. These standards shall apply to the dissolved portion of the contaminants specified with a definition of dissolved being that given in the publication "*methods for chemical analysis of water and waste of the U.S. environmental protection agency*," with the exception that standards for mercury, organic compounds and non-aqueous phase liquids shall apply to the total unfiltered concentrations of the contaminants.

A. Human Health Standards-Ground water shall meet the standards of Subsection A and B of this section unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 20.6.2.1101 NMAC for the combination of contaminants, or the Human Health Standard of Subsection A of Section 20.6.2.3103 NMAC for each contaminant shall apply, whichever is more stringent. Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

(1) Arsenic (As).....0.1 mg/l
(2) Barium (Ba).....1.0 mg/l
(3) Cadmium (Cd).....0.01 mg/l
(4) Chromium (Cr).....0.05 mg/l
(5) Cyanide (CN).....0.2 mg/l
(6) Fluoride (F).....1.6 mg/l
(7) Lead (Pb).....0.05 mg/l
(8) Total Mercury (Hg).....0.002 mg/l
(9) Nitrate (NO_3 as N).....10.0 mg/l
(10) Selenium (Se).....0.05 mg/l
(11) Silver (Ag).....0.05 mg/l
(12) Uranium (U).....0.03 mg/l
(13) Radioactivity: Combined Radium-226 & Radium-228.....30 pCi/l
(14) Benzene.....0.01 mg/l
(15) Polychlorinated biphenyls (PCB's).....0.001 mg/l
(16) Toluene.....0.75 mg/l
(17) Carbon Tetrachloride.....0.01 mg/l
(18) 1,2-dichloroethane (EDC).....0.01 mg/l
(19) 1,1-dichloroethylene (1,1-DCE).....0.005 mg/l
(20) 1,1,2,2-tetrachloroethylene (PCE).....0.02 mg/l
(21) 1,1,2-trichloroethylene (TCE).....0.1 mg/l
(22) ethylbenzene.....0.75 mg/l
(23) total xylenes.....0.62 mg/l
(24) methylene chloride.....0.1 mg/l
(25) chloroform.....0.1 mg/l
(26) 1,1-dichloroethane.....0.025 mg/l
(27) ethylene dibromide (EDB).....0.0001 mg/l
(28) 1,1,1-trichloroethane.....0.06 mg/l
(29) 1,1,2-trichloroethane.....0.01 mg/l
(30) 1,1,2,2-tetrachloroethane.....0.01 mg/l
(31) vinyl chloride.....0.001 mg/l
(32) PAHs: total naphthalene plus monomethylnaphthalenes.....0.03 mg/l
(33) benzo-a-pyrene.....0.0007 mg/l

B. Other Standards for Domestic Water Supply

(1) Chloride (Cl).....250.0 mg/l
(2) Copper (Cu).....1.0 mg/l
(3) Iron (Fe).....1.0 mg/l
(4) Manganese (Mn).....0.2 mg/l
(6) Phenols.....0.005 mg/l
(7) Sulfate (SO_4).....600.0 mg/l
(8) Total Dissolved Solids (TDS).....1000.0 mg/l
(9) Zinc (Zn).....10.0 mg/l
(10) pH.....between 6 and 9

C. Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C of this section unless otherwise provided.

(1) Aluminum (Al).....5.0 mg/l
(2) Boron (B).....0.75 mg/l
(3) Cobalt (Co).....0.05 mg/l
(4) Molybdenum (Mo).....1.0 mg/l
(5) Nickel (Ni).....0.2 mg/l

[2-18-77, 1-29-82, 11-17-83, 3-3-86, 12-1-95; 20.6.2.3103 NMAC - Rn, 20 NMAC 6.2.III.3103, 1-15-01; A, 9-26-04]

[Note: For purposes of application of the amended numeric uranium standard to past and current water discharges (as of 9-26-04), the new

this material at NARA, call 202–741–6030, or go to: *http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.*

(g) *Response to violation.* (1) A public water system which has exceeded the MCL for total coliforms in §141.63 must report the violation to the State no later than the end of the next business day after it learns of the violation, and notify the public in accordance with subpart Q.

(2) A public water system which has failed to comply with a coliform monitoring requirement, including the sanitary survey requirement, must report the monitoring violation to the State within ten days after the system discovers the violation, and notify the public in accordance with subpart Q.

[54 FR 27562, June 29, 1989]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §141.21, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

§141.22 Turbidity sampling and analytical requirements.

The requirements in this section apply to unfiltered systems until December 30, 1991, unless the State has determined prior to that date, in writing pursuant to section 1412(b)(7)(iii), that filtration is required. The requirements in this section apply to filtered systems until June 29, 1993. The requirements in this section apply to unfiltered systems that the State has determined, in writing pursuant to section 1412(b)(7)(C)(iii), must install filtration, until June 29, 1993, or until filtration is installed, whichever is later.

(a) Samples shall be taken by suppliers of water for both community and non-community water systems at a representative entry point(s) to the water distribution system at least once per day, for the purposes of making turbidity measurements to determine compliance with §141.13. If the State determines that a reduced sampling frequency in a non-community will not pose a risk to public health, it can reduce the required sampling frequency. The option of reducing the turbidity frequency shall be permitted only in those public water systems that practice disinfection and which maintain an active residual disinfectant in the distribution system, and in those cases where the State has indicated in writing that no unreasonable risk to health existed under the circumstances of this option. Turbidity measurements shall be made as directed in §141.74(a)(1).

(b) If the result of a turbidity analysis indicates that the maximum allowable limit has been exceeded, the sampling and measurement shall be confirmed by resampling as soon as practicable and preferably within one hour. If the repeat sample confirms that the maximum allowable limit has been exceeded, the supplier of water shall report to the State within 48 hours. The repeat sample shall be the sample used for the purpose of calculating the monthly average. If the monthly average of the daily samples exceeds the maximum allowable limit, or if the average of two samples taken on consecutive days exceeds 5 TU, the supplier of water shall report to the State and notify the public as directed in §141.31 and subpart Q.

(c) Sampling for non-community water systems shall begin within two years after the effective date of this part.

(d) The requirements of this §141.22 shall apply only to public water systems which use water obtained in whole or in part from surface sources.

(e) The State has the authority to determine compliance or initiate enforcement action based upon analytical results or other information compiled by their sanctioned representatives and agencies.

[40 FR 59570, Dec. 24, 1975, as amended at 45 FR 57344, Aug. 27, 1980; 47 FR 8998, Mar. 3, 1982; 47 FR 10998, Mar. 12, 1982; 54 FR 27527, June 29, 1989; 59 FR 62466, Dec. 5, 1994; 65 FR 26022, May 4, 2000]

§141.23 Inorganic chemical sampling and analytical requirements.

Community water systems shall conduct monitoring to determine compliance with the maximum contaminant levels specified in §141.62 in accordance with this section. Non-transient, non-community water systems shall conduct monitoring to determine compliance with the maximum contaminant levels specified in §141.62 in accordance

with this section. Transient, non-community water systems shall conduct monitoring to determine compliance with the nitrate and nitrite maximum contaminant levels in §§141.11 and 141.62 (as appropriate) in accordance with this section.

(a) Monitoring shall be conducted as follows:

(1) Groundwater systems shall take a minimum of one sample at every entry point to the distribution system which is representative of each well after treatment (hereafter called a sampling point) beginning in the initial compliance period. The system shall take each sample at the same sampling point unless conditions make another sampling point more representative of each source or treatment plant.

(2) Surface water systems shall take a minimum of one sample at every entry point to the distribution system after any application of treatment or in the distribution system at a point which is representative of each source after treatment (hereafter called a sampling point) beginning in the initial compliance period. The system shall take each sample at the same sampling point unless conditions make another sampling point more representative of each source or treatment plant.

NOTE: For purposes of this paragraph, surface water systems include systems with a combination of surface and ground sources.

(3) If a system draws water from more than one source and the sources are combined before distribution, the system must sample at an entry point to the distribution system during periods of normal operating conditions (*i.e.*, when water is representative of all sources being used).

(4) The State may reduce the total number of samples which must be analyzed by allowing the use of compositing. Composite samples from a maximum of five samples are allowed, provided that the detection limit of the method used for analysis is less than one-fifth of the MCL. Compositing of samples must be done in the laboratory.

(i) If the concentration in the composite sample is greater than or equal to one-fifth of the MCL of any inorganic chemical, then a follow-up sample must be taken within 14 days at each sampling point included in the composite. These samples must be analyzed for the contaminants which exceeded one-fifth of the MCL in the composite sample. Detection limits for each analytical method and MCLs for each inorganic contaminant are the following:

DETECTION LIMITS FOR INORGANIC CONTAMINANTS

Contaminant	MCL (mg/l)	Methodology	Detection limit (mg/l)
Antimony	0.006	Atomic Absorption; Furnace	0.003
		Atomic Absorption; Platform	0.0008[5]
		ICP-Mass Spectrometry	0.0004
		Hydride-Atomic Absorption	*0.001*
Arsenic	0.010[6]	Atomic Absorption; Furnace	0.001
		Atomic Absorption; Platform—Stabilized Temperature	0.0005[7]
		Atomic Absorption; Gaseous Hydride	0.001
		ICP-Mass Spectrometry	0.0014[8]
Asbestos	7 MFL[1]	Transmission Electron Microscopy	0.01 MFL
Barium	2	Atomic Absorption; furnace technique	0.002
		Atomic Absorption; direct aspiration	0.1
		Inductively Coupled Plasma	0.002 (0.001)
Beryllium	0.004	Atomic Absorption; Furnace	0.0002
		Atomic Absorption; Platform	0.00002[5]
		Inductively Coupled Plasma[2]	0.0003
		ICP-Mass Spectrometry	0.0003
Cadmium	0.005	Atomic Absorption; furnace technique	0.0001
		Inductively Coupled Plasma	0.001
Chromium	0.1	Atomic Absorption; furnace technique	0.001
		Inductively Coupled Plasma	0.007 (0.001)
Cyanide	0.2	Distillation, Spectrophotometric[3]	0.02
		Distillation, Automated, Spectrophotometric[3]	0.005
		Distillation, Amenable, Spectrophotometric[4]	0.02
		Distillation, Selective Electrode[3, 4]	0.05
		UV, Distillation, Spectrophotometric[9]	0.0005
		Micro Distillation, Flow Injection, Spectrophotometric[3]	0.0006
		Ligand Exchange with Amperometry[4]	0.0005

DETECTION LIMITS FOR INORGANIC CONTAMINANTS—Continued

Contaminant	MCL (mg/l)	Methodology	Detection limit (mg/l)
Mercury	0.002	Manual Cold Vapor Technique	0.0002
		Automated Cold Vapor Technique	0.0002
Nickel	xl	Atomic Absorption; Furnace	0.001
		Atomic Absorption; Platform	0.0006[5]
		Inductively Coupled Plasma[2]	0.005
		ICP-Mass Spectrometry	0.0005
Nitrate	10 (as N)	Manual Cadmium Reduction	0.01
		Automated Hydrazine Reduction	0.01
		Automated Cadmium Reduction	0.05
		Ion Selective Electrode	1
		Ion Chromatography	0.01
		Capillary Ion Electrophoresis	0.076
Nitrite	1 (as N)	Spectrophotometric	0.01
		Automated Cadmium Reduction	0.05
		Manual Cadmium Reduction	0.01
		Ion Chromatography	0.004
		Capillary Ion Electrophoresis	0.103
Selenium	0.05	Atomic Absorption; furnace	0.002
		Atomic Absorption; gaseous hydride	0.002
Thallium	0.002	Atomic Absorption; Furnace	0.001
		Atomic Absorption; Platform	0.0007[5]
		ICP-Mass Spectrometry	0.0003

[1] MFL = million fibers per liter >10 μm.
[2] Using a 2X preconcentration step as noted in Method 200.7. Lower MDLs may be achieved when using a 4X preconcentration.
[3] Screening method for total cyanides.
[4] Measures "free" cyanides when distillation, digestion, or ligand exchange is omitted.
[5] Lower MDLs are reported using stabilized temperature graphite furnace atomic absorption.
[6] The value for arsenic is effective January 23, 2006. Unit then, the MCL is 0.05 mg/L.
[7] The MDL reported for EPA method 200.9 (Atomic Absorption; Platform—Stablized Temperature) was determined using a 2x concentration step during sample digestion. The MDL determined for samples analyzed using direct analyses (*i.e.*, no sample digestion) will be higher. Using multiple depositions, EPA 200.9 is capable of obtaining MDL of 0.0001 mg/L.
[8] Using selective ion monitoring, EPA Method 200.8 (ICP-MS) is capable of obtaining a MDL of 0.0001 mg/L.
[9] Measures total cyanides when UV-digestor is used, and "free" cyanides when UV-digestor is bypassed.

(ii) If the population served by the system is >3,300 persons, then compositing may only be permitted by the State at sampling points within a single system. In systems serving ≤3,300 persons, the State may permit compositing among different systems provided the 5-sample limit is maintained.

(iii) If duplicates of the original sample taken from each sampling point used in the composite sample are available, the system may use these instead of resampling. The duplicates must be analyzed and the results reported to the State within 14 days after completing analysis of the composite sample, provided the holding time of the sample is not exceeded.

(5) The frequency of monitoring for asbestos shall be in accordance with paragraph (b) of this section: the frequency of monitoring for antimony, arsenic, barium, beryllium, cadmium, chromium, cyanide, fluoride, mercury, nickel, selenium and thallium shall be in accordance with paragraph (c) of this section; the frequency of monitoring for nitrate shall be in accordance with paragraph (d) of this section; and the frequency of monitoring for nitrite shall be in accordance with paragraph (e) of this section.

(b) The frequency of monitoring conducted to determine compliance with the maximum contaminant level for asbestos specified in §141.62(b) shall be conducted as follows:

(1) Each community and non-transient, non-community water system is required to monitor for asbestos during the first three-year compliance period of each nine-year compliance cycle beginning in the compliance period starting January 1, 1993.

(2) If the system believes it is not vulnerable to either asbestos contamination in its source water or due to corrosion of asbestos-cement pipe, or both, it may apply to the State for a waiver of the monitoring requirement in paragraph (b)(1) of this section. If the State grants the waiver, the system is not required to monitor.

NEW MEXICO ENVIRONMENT DEPARTMENT TPH SCREENING GUIDELINES
October 2006

In some instances, it may be practical to assess areas of soil contamination that are the result of releases of petroleum products such as jet fuel and diesel, using total petroleum hydrocarbon (TPH) analyses. TPH results may be used to delineate the extent of petroleum-related contamination at these sites and ascertain if the residual level of petroleum products in soil represents an unacceptable risk to future users of the site. Petroleum hydrocarbons represent complex mixtures of compounds, some of which are regulated constituents and some compounds that are not regulated. In addition, the amount and types of the constituent compounds in a petroleum hydrocarbon release differ widely depending on what type of product was spilled and how the spill has weathered. This variability makes it difficult to determine the toxicity of weathered petroleum products in soil solely from TPH results; however, these results can be used to approximate risk in some cases, depending upon the nature of the petroleum product, the release scenario, how well the site has been characterized, and anticipated potential future land uses. In some cases, site clean up cannot be based solely on results of TPH sampling. The New Mexico Environment Department (NMED) will make these determinations on a case by case basis. If NMED determines that additional data are necessary, these TPH guidelines must be used in conjunction with the screening guidelines for individual petroleum-related contaminants in Table 3 and other contaminants, as applicable.

The screening levels for each petroleum carbon range from the Massachusetts Department of Environmental Protection (MADEP) Volatile Petroleum Hydrocarbons/Extractable Petroleum Hydrocarbons (VPH/EPH) approach and the percent composition table below were used to generate screening levels corresponding to total TPH. Except for waste oil, the information in the compositional assumptions table was obtained from the Massachusetts Department of Environmental Protection guidance document *Implementation of the MADEP VPH/EPH Approach* (October 31, 2002). TPH toxicity was based only on the weighted sum of the toxicity of the hydrocarbon fractions listed in Table 1.

Table 1. TPH Compositional Assumptions in Soil

Petroleum Product	C11-C22 Aromatics	C9-C18 Aliphatics	C19-C36 Aliphatics
Diesel #2/ new crankcase oil	60%	40%	0%
#3 and #6 Fuel Oil	70%	30%	0%
Kerosene and jet fuel	30%	70%	0%
Mineral oil dielectric fluid	20%	40%	40%
Unknown oil[a]	100%	0%	0%
Waste Oil[b]	0%	0%	100%

[a] Sites with oil from unknown sources must be tested for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, and polychlorinated biphenyls (PCBs) to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

[b] Compositional assumption for waste oil developed by NMED is based on review of chromatographs of several types of waste oil. Sites with waste oil must be tested for VOCs, SVOCs, metals, and PCBs to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

A TPH screening guideline was calculated for each of the types of petroleum product based on the assumed composition from Table 1 for petroleum products and the direct soil standards incorporating ceiling concentrations given in the MADEP VPH/EPH Excel spreadsheet for each of the carbon fractions. Groundwater concentrations are based on the weighted sum of the noncarcinogenic toxicity of the petroleum fractions.

Method 1 from the MADEP VPH/EPH document was applied, which represents generic cleanup standards for soil and groundwater. Method 1 applies if contamination exists in only soil and groundwater. The MADEP VPH/EPH further divides groundwater into standards. Standard GW-1 applies when groundwater may be used for drinking water purposes. GW-1 standards are based upon ingestion and use of groundwater as a potable water supply. The TPH screening guidelines for sites with potable groundwater are presented in Table 2a.

Table 2a. TPH Screening Guidelines for Potable Groundwater (GW-1)

TPH			Concentration in Groundwater (mg/L)
Petroleum Product	**Residential Direct Exposure (mg/kg)**	**Industrial Direct Exposure (mg/kg)**	
Diesel #2/crankcase oil	520	1120	1.72
#3 and #6 Fuel Oil	440	890	1.34
Kerosene and jet fuel	760	1810	2.86
Mineral oil dielectric fluid	1440	3040	3.64
Unknown oil [a]	200	200	0.2
Waste Oil [b]	2500	5000	Petroleum-Related Contaminants
Gasoline	Not applicable	Not applicable	Petroleum-Related Contaminants

[a] Sites with oil from unknown sources must be tested for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, and polychlorinated biphenyls (PCBs) to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

[b] Compositional assumption for waste oil developed by NMED is based on review of chromatographs of several types of waste oil. Sites with waste oil must be tested for VOCs, SVOCs, metals, and PCBs to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

The second standard is GW-2, which is applicable for sites where the depth to groundwater is less than 15 feet from the ground surface and within 30 feet of an occupied structure. The structure may be either residential or industrial. GW-2 standards are based upon "inhalation exposures that could occur to occupants of the building impacted by volatile compounds, which partition from the groundwater" (MADEP 2001). The GW-2 screening guidelines ONLY apply for the evaluation of inhalation exposures. If potential ingestion or contact with contaminated soil and/or

groundwater could occur, then the screening guidelines provided in Table 2.a should be applied. Table 2.b lists the TPH screening guidelines for the inhalation scenario.

Table 2b. TPH Screening Guidelines – Vapor Migration and Inhalation of Groundwater (GW-2)

TPH			Concentration in Groundwater (mg/L)
Petroleum Product	**Residential Direct Exposure (mg/kg)**	**Industrial Direct Exposure (mg/kg)**	
Diesel #2/crankcase oil	880	2200	30.4
#3 and #6 Fuel Oil	860	2150	35.3
Kerosene and jet fuel	940	2350	15.7
Mineral oil dielectric fluid	1560	3400	10.4
Unknown oil [a]	800	2000	50.0
Waste Oil [b]	2500	5000	Petroleum-Related Contaminants
Gasoline	Not applicable	Not applicable	Petroleum-Related Contaminants

[a] Sites with oil from unknown sources must be tested for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, and polychlorinated biphenyls (PCBs) to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

[b] Compositional assumption for waste oil developed by NMED is based on review of chromatographs of several types of waste oil. Sites with waste oil must be tested for VOCs, SVOCs, metals, and PCBs to determine if other potentially toxic constituents are present. The TPH guidelines in Table 2 are not designed to be protective of exposure to these constituents therefore they must be tested for, and compared to, their individual NMED soil screening guidelines.

Mineral oil based hydraulic fluids can be evaluated for petroleum fraction toxicity using the screening guidelines from Tables 2a and 2b specified for waste oil, because this type of hydraulic fluid is composed of approximately the same range of carbon fractions as waste oil. However, these hydraulic fluids often contain proprietary additives that may be significantly more toxic than the oil itself; these additives must be considered on a site- and product-specific basis (see ATSDR hydraulic fluids profile reference). **Use of alternate screening guideline values requires prior written approval from the New Mexico Environment Department.** TPH screening guidelines in Tables 2a and 2b must be used in conjunction with the screening levels for petroleum-related contaminants given in Table 3 because the TPH screening levels are NOT designed to be protective of exposure to these individual petroleum-related contaminants. Table 3 petroleum-related contaminants screening levels are based on the *NMED Technical Background Document for Development of Soil Screening Levels, Rev 4.0 (June 2006).*

The list of petroleum-related contaminants does not include polyaromatic hydrocarbons (PAHs) with individual screening levels that would exceed the total TPH screening levels (acenaphthene, anthracene, flouranthene, flourene, and pyrene). In addition, these TPH screening guidelines are based solely on human health, not ecological risk considerations, protection of surface water, or

EPA United States Environmental Protection Agency

Water: Drinking Water Contaminants

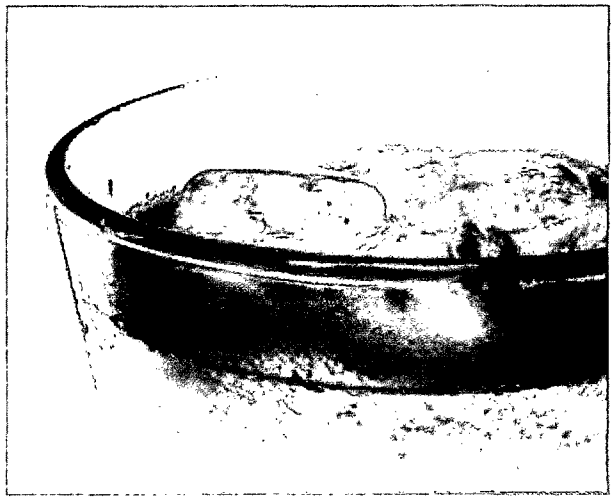
You are here: Water » Drinking Water » Drinking Water Contaminants

Drinking Water Contaminants

National Primary Drinking Water Regulations

On this Page

- National Primary DW Regulations
- List of DW Contaminants & MCLs
- National Secondary DW Regs
- List of Secondary DW Regulations
- Unregulated Contaminants



National Primary Drinking Water Regulations (NPDWRs or primary standards) are legally enforceable standards that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water. Visit the list of regulated contaminants with links for more details.

- List of Contaminants & their Maximum Contaminant Level (MCLs)
- Regulation Development
- EPA's Regulated Contaminant Timeline (PDF) (1 pp, 86 K) (About PDF)
- National Primary Drinking Water Regulations- The complete regulations regarding these contaminants availible from the Code of Federal Regulations Website

List of Contaminants & their MCLs

An alphabetical listing with links to fact sheets on the primary drinking water regulations.

Information on this section

- Alphabetical List (PDF) (6 pp, 924 K) (About PDF) EPA 816-F-09-0004, May 2009

- Microorganisms
- Disinfectants
- Disinfection Byproducts
- Inorganic Chemicals
- Organic Chemicals
- Radionuclides

Microorganisms

Contaminant	MCLG[1] (mg/L)[2]	MCL or TT[1] (mg/L)[2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Cryptosporidium	zero	TT[3]	Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste
Giardia lamblia	zero	TT[3]	Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste
Heterotrophic plate count	n/a	TT[3]	HPC has no health effects; it is an analytic method used to measure the variety of bacteria that are common in water. The lower the concentration of bacteria in drinking water, the better maintained the water system is.	HPC measures a range of bacteria that are naturally present in the environment
Legionella	zero	TT[3]	Legionnaire's Disease, a type of pneumonia	Found naturally in water; multiplies in heating systems
Total Coliforms (including fecal coliform and *E. Coli*)	zero	5.0%[4]	Not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present[5]	Coliforms are naturally present in the environment; as well as feces; fecal coliforms and *E. coli* only come from human and animal fecal waste.
Turbidity	n/a	TT[3]	Turbidity is a measure of the cloudiness of water. It is used to indicate water quality and filtration effectiveness (e.g., whether disease-causing organisms are present). Higher turbidity levels are often associated with higher levels of disease-causing microorganisms such as viruses, parasites and some bacteria. These organisms can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.	Soil runoff
Viruses (enteric)	zero	TT[3]	Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste

Disinfection Byproducts

Contaminant	MCLG [1] (mg/L) [2]	MCL or TT [2] [1] (mg/L)	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Bromate	zero	0.010	Increased risk of cancer	Byproduct of drinking water disinfection
Chlorite	0.8	1.0	Anemia; infants & young children: nervous system effects	Byproduct of drinking water disinfection
Haloacetic acids (HAA5)	n/a [6]	0.060 [7]	Increased risk of cancer	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHMs)	--> n/a [6]	--> 0.080 [7]	Liver, kidney or central nervous system problems; increased risk of cancer	Byproduct of drinking water disinfection

Disinfectants

Contaminant	MCLG [1] (mg/L) [2]	MCL or TT [1] (mg/L) [2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Chloramines (as Cl_2)	MRDLG=4 [1]	MRDL=4.0 [1]	Eye/nose irritation; stomach discomfort, anemia	Water additive used to control microbes
Chlorine (as Cl_2)	MRDLG=4 [1]	MRDL=4.0 [1]	Eye/nose irritation; stomach discomfort	Water additive used to control microbes
Chlorine dioxide (as ClO_2)	MRDLG=0.8 [1]	MRDL=0.8 [1]	Anemia; infants & young children: nervous system effects	Water additive used to control microbes

Inorganic Chemicals

Contaminant	MCLG [1] (mg/L) [2]	MCL or TT [1] (mg/L) [2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Antimony	0.006	0.006	Increase in blood cholesterol; decrease in blood sugar	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder

Contaminant	MCLG [1] (mg/L) [2]	MCL or TT [1] (mg/L) [2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Arsenic	0 [7]	0.010 as of 01/23/06	Skin damage or problems with circulatory systems, and may have increased risk of getting cancer	Erosion of natural deposits; runoff from orchards, runoff from glass & electronicsproduction wastes
Asbestos (fiber >10 micrometers)	7 million fibers per liter	7 MFL	Increased risk of developing benign intestinal polyps	Decay of asbestos cement in water mains; erosion of natural deposits
Barium	2	2	Increase in blood pressure	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium	0.004	0.004	Intestinal lesions	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium	0.005	0.005	Kidney damage	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium (total)	0.1	0.1	Allergic dermatitis	Discharge from steel and pulp mills; erosion of natural deposits
Copper	1.3	TT [7]; Action Level=1.3	Short term exposure: Gastrointestinal distress Long term exposure: Liver or kidney damage People with Wilson's Disease should consult their personal doctor	Corrosion of household plumbing systems; erosion of natural deposits

Contaminant	MCLG [1] (mg/L) [2]	MCL or TT [1] (mg/L) [2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
			if the amount of copper in their water exceeds the action level	
Cyanide (as free cyanide)	0.2	0.2	Nerve damage or thyroid problems	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	4.0	4.0	Bone disease (pain and tenderness of the bones); Children may get mottled teeth	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories
Lead	zero	TT [7]; Action Level=0.015	Infants and children: Delays in physical or mental development; children could show slight deficits in attention span and learning abilities Adults: Kidney problems; high blood pressure	Corrosion of household plumbing systems; erosion of natural deposits
Mercury (inorganic)	0.002	0.002	Kidney damage	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and croplands
Nitrate (measured as Nitrogen)	10	10	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaking from septic tanks, sewage; erosion of natural deposits
Nitrite (measured as Nitrogen)	1	1	Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may	Runoff from fertilizer use; leaking from septic tanks, sewage; erosion of natural deposits

Contaminant	MCLG [1] (mg/L) [2]	MCL or TT [1] (mg/L) [2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
			die. Symptoms include shortness of breath and blue-baby syndrome.	
Selenium	0.05	0.05	Hair or fingernail loss; numbness in fingers or toes; circulatory problems	Discharge from petroleum refineries; erosion of natural deposits; discharge from mines
Thallium	0.0005	0.002	Hair loss; changes in blood; kidney, intestine, or liver problems	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

Organic Chemicals

Contaminant	MCLG [1] (mg/L) [2]	MCL or TT [1] (mg/L) [2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Acrylamide	zero	TT [8]	Nervous system or blood problems; increased risk of cancer	Added to water during sewage/wastewater treatment
Alachlor	zero	0.002	Eye, liver, kidney or spleen problems; anemia; increased risk of cancer	Runoff from herbicide used on row crops
Atrazine	0.003	0.003	Cardiovascular system or reproductive problems	Runoff from herbicide used on row crops
Benzene	zero	0.005	Anemia; decrease in blood platelets; increased risk of cancer	Discharge from factories; leaching from gas storage tanks and landfills
Benzo(a)pyrene (PAHs)	zero	0.0002	Reproductive difficulties; increased risk of cancer	Leaching from linings of water storage tanks and distribution lines

Contaminant	MCLG[1] (mg/L)[2]	MCL or TT[1] (mg/L)[2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Carbofuran	0.04	0.04	Problems with blood, nervous system, or reproductive system	Leaching of soil fumigant used on rice and alfalfa
Carbon tetrachloride	zero	0.005	Liver problems; increased risk of cancer	Discharge from chemical plants and other industrial activities
Chlordane	zero	0.002	Liver or nervous system problems; increased risk of cancer	Residue of banned termiticide
Chlorobenzene	0.1	0.1	Liver or kidney problems	Discharge from chemical and agricultural chemical factories
2,4-D	0.07	0.07	Kidney, liver, or adrenal gland problems	Runoff from herbicide used on row crops
Dalapon	0.2	0.2	Minor kidney changes	Runoff from herbicide used on rights of way
1,2-Dibromo-3-chloropropane (DBCP)	zero	0.0002	Reproductive difficulties; increased risk of cancer	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
o-Dichlorobenzene	0.6	0.6	Liver, kidney, or circulatory system problems	Discharge from industrial chemical factories
p-Dichlorobenzene	0.075	0.075	Anemia; liver, kidney or spleen damage; changes in blood	Discharge from industrial chemical factories

Contaminant	MCLG[1] (mg/L)[2]	MCL or TT[1] (mg/L)[2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
1,2-Dichloroethane	zero	0.005	Increased risk of cancer	Discharge from industrial chemical factories
1,1-Dichloroethylene	0.007	0.007	Liver problems	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene	0.07	0.07	Liver problems	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene	0.1	0.1	Liver problems	Discharge from industrial chemical factories
Dichloromethane	zero	0.005	Liver problems; increased risk of cancer	Discharge from drug and chemical factories
1,2-Dichloropropane	zero	0.005	Increased risk of cancer	Discharge from industrial chemical factories
Di(2-ethylhexyl) adipate	0.4	0.4	Weight loss, liver problems, or possible reproductive difficulties.	Discharge from chemical factories
Di(2-ethylhexyl) phthalate	zero	0.006	Reproductive difficulties; liver problems; increased risk of cancer	Discharge from rubber and chemical factories
Dinoseb	0.007	0.007	Reproductive difficulties	Runoff from herbicide used on soybeans and vegetables
Dioxin (2,3,7,8-TCDD)	zero	0.00000003	Reproductive difficulties; increased risk of cancer	Emissions from waste incineration and other combustion; discharge from chemical factories

Contaminant	MCLG [1] (mg/L) [2]	MCL or TT [1] (mg/L) [2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Diquat	0.02	0.02	Cataracts	Runoff from herbicide use
Endothall	0.1	0.1	Stomach and intestinal problems	Runoff from herbicide use
Endrin	0.002	0.002	Liver problems	Residue of banned insecticide
Epichlorohydrin	zero	TT [8]	Increased cancer risk, and over a long period of time, stomach problems	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylbenzene	0.7	0.7	Liver or kidneys problems	Discharge from petroleum refineries
Ethylene dibromide	zero	0.00005	Problems with liver, stomach, reproductive system, or kidneys; increased risk of cancer	Discharge from petroleum refineries
Glyphosate	0.7	0.7	Kidney problems; reproductive difficulties	Runoff from herbicide use
Heptachlor	zero	0.0004	Liver damage; increased risk of cancer	Residue of banned termiticide
Heptachlor epoxide	zero	0.0002	Liver damage; increased risk of cancer	Breakdown of heptachlor
Hexachlorobenzene	zero	0.001	Liver or kidney problems; reproductive difficulties; increased risk of cancer	Discharge from metal refineries and agricultural chemical factories

Contaminant	MCLG [1] (mg/L) [2]	MCL or TT [1] (mg/L) [2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Hexachlorocyclopentadiene	0.05	0.05	Kidney or stomach problems	Discharge from chemical factories
Lindane	0.0002	0.0002	Liver or kidney problems	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	0.04	0.04	Reproductive difficulties	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl (Vydate)	0.2	0.2	Slight nervous system effects	Runoff/leaching from insecticide used on apples, potatoes, and tomatoes
Polychlorinated biphenyls (PCBs)	zero	0.0005	Skin changes; thymus gland problems; immune deficiencies; reproductive or nervous system difficulties; increased risk of cancer	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol	zero	0.001	Liver or kidney problems; increased cancer risk	Discharge from wood preserving factories
Picloram	0.5	0.5	Liver problems	Herbicide runoff
Simazine	0.004	0.004	Problems with blood	Herbicide runoff
Styrene	0.1	0.1	Liver, kidney, or circulatory system problems	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene	zero	0.005	Liver problems; increased risk of cancer	Discharge from factories and dry cleaners

Contaminant	MCLG [1] (mg/L) [2]	MCL or TT [1] (mg/L) [2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Toluene	1	1	Nervous system, kidney, or liver problems	Discharge from petroleum factories
Toxaphene	zero	0.003	Kidney, liver, or thyroid problems; increased risk of cancer	Runoff/leaching from insecticide used on cotton and cattle
2,4,5-TP (Silvex)	0.05	0.05	Liver problems	Residue of banned herbicide
1,2,4-Trichlorobenzene	0.07	0.07	Changes in adrenal glands	Discharge from textile finishing factories
1,1,1-Trichloroethane	0.20	0.2	Liver, nervous system, or circulatory problems	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane	0.003	0.005	Liver, kidney, or immune system problems	Discharge from industrial chemical factories
Trichloroethylene	zero	0.005	Liver problems; increased risk of cancer	Discharge from metal degreasing sites and other factories
Vinyl chloride	zero	0.002	Increased risk of cancer	Leaching from PVC pipes; discharge from plastic factories
Xylenes (total)	10	10	Nervous system damage	Discharge from petroleum factories; discharge from chemical factories

Radionuclides

Contaminant	MCLG [1] (mg/L) [2]	MCL or TT [1] (mg/L) [2]	Potential Health Effects from Long-Term Exposure Above the MCL (unless specified as short-term)	Sources of Contaminant in Drinking Water
Alpha particles	none [7] ---------- zero	15 picocuries per Liter (pCi/L)	Increased risk of cancer	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation
Beta particles and photon emitters	none [7] ---------- zero	4 millirems per year	Increased risk of cancer	Decay of natural and man-made deposits of certain minerals that are radioactive and may emit forms of radiation known as photons and beta radiation
Radium 226 and Radium 228 (combined)	none [7] ---------- zero	5 pCi/L	Increased risk of cancer	Erosion of natural deposits
Uranium	zero	30 ug/L as of 12/08/03	Increased risk of cancer, kidney toxicity	Erosion of natural deposits

Notes

[1] Definitions: Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals. Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards. Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants. (TT) Treatment Technique - A required process intended to reduce the level of a contaminant in drinking water. Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

[2] Units are in milligrams per liter (mg/L) unless otherwise noted. Milligrams per liter are equivalent to parts per million.

[3] EPA's surface water treatment rules require systems using surface water or ground water under the direct influence of surface water to (1) disinfect their water, and (2) filter their water or meet criteria for avoiding filtration so that the following contaminants are controlled at the following levels:

- *Cryptosporidium: Unfiltered systems are required to include Cryptosporidium in their existing watershed control provisions.*
- *Giardia lamblia: 99.9% removal/inactivation*
- Viruses: 99.99% removal/inactivation
- *Legionella: No limit, but EPA believes that if Giardia* and viruses are removed/inactivated, according to the treatment techniques in the Surface Water Treatment Rule, *Legionella* will also be controlled.
- Turbidity: For systems that use conventional or direct filtration, at no time can turbidity (cloudiness of water) go higher than 1 nephelolometric turbidity unit NTU), and samples for turbidity must be less than or equal to 0.3 NTU in at least 95 percent of the samples in any month. Systems that use filtration other than the conventional or direct filtration must follow state limits, which must include turbidity at no time exceeding 5 NTU.
- HPC: No more than 500 bacterial colonies per milliliter.
- Long Term 1 Enhanced Surface Water Treatment: Surface water systems or (GWUDI) systems serving fewer than 10,000 people must comply with the applicable Long Term 1 Enhanced Surface Water Treatment Rule provisions (e.g. turbidity standards, individual filter monitoring, *Cryptosporidium* removal requirements, updated watershed control requirements for unfiltered systems).
- *Long Term 2 Enhanced Surface Water Treatment Rule This rule applies to all surface water systems or ground water systems under the direct influence of surface water. The rule targets additional Cryptosporidium treatment requirements for higher risk systems and includes provisions to reduce risks from uncovered finished water storage facilities and to ensure that the systems maintain microbial protection as they take steps to reduce the formation of disinfection byproducts.*
- Filter Backwash Recycling; The Filter Backwash Recycling Rule requires systems that recycle to return specific recycle flows through all processes of the system's existing conventional or direct filtration system or at an alternate location approved by the state.

[4] *No more than 5.0% samples total coliform-positive in a month. (For water systems that collect fewer than 40 routine samples per month, no more than one sample can be total coliform-positive per month.) Every sample that has total coliform must be analyzed for either fecal coliforms or E. coli* if two consecutive TC-positive samples, and one is also positive for *E.coli fecal coliforms, system has an acute MCL violation.*

[5] Fecal coliform and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Disease-causing microbes (pathogens) in these wastes can cause diarrhea, cramps, nausea, headaches, or other symptoms. These pathogens may pose a special health risk for infants, young children, and people with severely compromised immune systems.

[6] Although there is no collective MCLG for this contaminant group, there are individual MCLGs for some of the individual contaminants:

- Trihalomethanes: bromodichloromethane (zero); bromoform (zero); dibromochloromethane (0.06 mg/L): chloroform (0.07mg/L).
- Haloacetic acids: dichloroacetic acid (zero); trichloroacetic acid (0.02 mg/L); monochloroacetic acid (0.07 mg/L). Bromoacetic acid and dibromoacetic acid are regulated with this group but have no MCLGs.

[7] Lead and copper are regulated by a Treatment Technique that requires systems to control the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water systems must take additional steps. For copper, the action level is 1.3 mg/L, and for lead is 0.015 mg/L.

[8] Each water system must certify, in writing, to the state (using third-party or manufacturer's certification) that when acrylamide and epichlorohydrin are used to treat water, the combination (or product) of dose and monomer level does not exceed the levels specified, as follows:

- Acrylamide = 0.05% dosed at 1 mg/L (or equivalent)
- Epichlorohydrin = 0.01% dosed at 20 mg/L (or equivalent)

National Secondary Drinking Water Regulations

National Secondary Drinking Water Regulations (NSDWRs or secondary standards) are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to water systems but does not require systems to comply. However, states may choose to adopt them as enforceable standards.

- National Secondary Drinking Water Regulations - The complete regulations regarding these contaminants available from the Code of Federal Regulations Web Site.
- For more information, read Secondary Drinking Water Regulations: Guidance for Nuisance Chemicals.

List of National Secondary Drinking Water Regulations

Contaminant	Secondary Standard
Aluminum	0.05 to 0.2 mg/L
Chloride	250 mg/L
Color	15 (color units)
Copper	1.0 mg/L
Corrosivity	noncorrosive
Fluoride	2.0 mg/L
Foaming Agents	0.5 mg/L
Iron	0.3 mg/L
Manganese	0.05 mg/L
Odor	3 threshold odor number
pH	6.5-8.5
Silver	0.10 mg/L
Sulfate	250 mg/L
Total Dissolved Solids	500 mg/L
Zinc	5 mg/L

Unregulated Contaminants

This list of contaminants which, at the time of publication, are not subject to any proposed or promulgated national primary drinking water regulation (NPDWR), are known or anticipated to occur in public water systems, and may require regulations under SDWA. For more information check out the list, or vist the Drinking Water Contaminant Candidate List (CCL) web site.

- Drinking Water Contaminant Candidate List 2
- Drinking Water Contaminant Candidate List (CCL) Web Site
- Unregulated Contaminant Monitoring Program (UCM)
- **Information on specific unregulated contaminants**
  - MTBE (methyl-t-butyl ether) in drinking water

Last updated on Monday, August 29, 2011

National Primary Drinking Water Regulations

Contaminant		MCL or TT[1] (mg/L)[2]	Potential health effects from long-term[3] exposure above the MCL	Common sources of contaminant in drinking water	Public Health Goal (mg/L)[2]
OC	Acrylamide	TT[4]	Nervous system or blood problems; increased risk of cancer	Added to water during sewage/ wastewater treatment	zero
OC	Alachlor	0.002	Eye, liver, kidney or spleen problems; anemia; increased risk of cancer	Runoff from herbicide used on row crops	zero
R	Alpha/photon emitters	15 picocuries per Liter (pCi/L)	Increased risk of cancer	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation	zero
IOC	Antimony	0.006	Increase in blood cholesterol; decrease in blood sugar	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder	0.006
IOC	Arsenic	0.010	Skin damage or problems with circulatory systems, and may have increased risk of getting cancer	Erosion of natural deposits; runoff from orchards; runoff from glass & electronics production wastes	0
IOC	Asbestos (fibers >10 micrometers)	7 million fibers per Liter (MFL)	Increased risk of developing benign intestinal polyps	Decay of asbestos cement in water mains; erosion of natural deposits	7 MFL
OC	Atrazine	0.003	Cardiovascular system or reproductive problems	Runoff from herbicide used on row crops	0.003
IOC	Barium	2	Increase in blood pressure	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	2
OC	Benzene	0.005	Anemia; decrease in blood platelets; increased risk of cancer	Discharge from factories; leaching from gas storage tanks and landfills	zero
OC	Benzo(a)pyrene (PAHs)	0.0002	Reproductive difficulties; increased risk of cancer	Leaching from linings of water storage tanks and distribution lines	zero
IOC	Beryllium	0.004	Intestinal lesions	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries	0.004
R	Beta photon emitters	4 millirems per year	Increased risk of cancer	Decay of natural and man-made deposits of certain minerals that are radioactive and may emit forms of radiation known as photons and beta radiation	zero
DBP	Bromate	0.010	Increased risk of cancer	Byproduct of drinking water disinfection	zero
IOC	Cadmium	0.005	Kidney damage	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints	0.005
OC	Carbofuran	0.04	Problems with blood, nervous system, or reproductive system	Leaching of soil fumigant used on rice and alfalfa	0.04
OC	Carbon tetrachloride	0.005	Liver problems; increased risk of cancer	Discharge from chemical plants and other industrial activities	zero
D	Chloramines (as Cl_2)	MRDL=4.0[1]	Eye/nose irritation; stomach discomfort; anemia	Water additive used to control microbes	MRDLG=4[1]
OC	Chlordane	0.002	Liver or nervous system problems; increased risk of cancer	Residue of banned termiticide	zero
D	Chlorine (as Cl_2)	MRDL=4.0[1]	Eye/nose irritation; stomach discomfort	Water additive used to control microbes	MRDLG=4[1]
D	Chlorine dioxide (as ClO_2)	MRDL=0.8[1]	Anemia; infants, young children, and fetuses of pregnant women: nervous system effects	Water additive used to control microbes	MRDLG=0.8[1]
DBP	Chlorite	1.0	Anemia; infants, young children, and fetuses of pregnant women: nervous system effects	Byproduct of drinking water disinfection	0.8
OC	Chlorobenzene	0.1	Liver or kidney problems	Discharge from chemical and agricultural chemical factories	0.1
IOC	Chromium (total)	0.1	Allergic dermatitis	Discharge from steel and pulp mills; erosion of natural deposits	0.1
IOC	Copper	TT[5]; Action Level = 1.3	Short-term exposure: Gastrointestinal distress. Long-term exposure: Liver or kidney damage. People with Wilson's Disease should consult their personal doctor if the amount of copper in their water exceeds the action level	Corrosion of household plumbing systems; erosion of natural deposits	1.3
M	*Cryptosporidium*	TT[7]	Short-term exposure: Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste	zero

LEGEND

D Disinfectant | IOC Inorganic Chemical | OC Organic Chemical

DBP Disinfection Byproduct | M Microorganism | R Radionuclides

Contaminant		MCL or TT[1] (mg/L)[2]	Potential health effects from long-term[3] exposure above the MCL	Common sources of contaminant in drinking water	Public Health Goal (mg/L)[2]
IOC	Cyanide (as free cyanide)	0.2	Nerve damage or thyroid problems	Discharge from steel/metal factories; discharge from plastic and fertilizer factories	0.2
OC	2,4-D	0.07	Kidney, liver, or adrenal gland problems	Runoff from herbicide used on row crops	0.07
OC	Dalapon	0.2	Minor kidney changes	Runoff from herbicide used on rights of way	0.2
OC	1,2-Dibromo-3-chloropropane (DBCP)	0.0002	Reproductive difficulties; increased risk of cancer	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards	zero
OC	o-Dichlorobenzene	0.6	Liver, kidney, or circulatory system problems	Discharge from industrial chemical factories	0.6
OC	p-Dichlorobenzene	0.075	Anemia; liver, kidney or spleen damage; changes in blood	Discharge from industrial chemical factories	0.075
OC	1,2-Dichloroethane	0.005	Increased risk of cancer	Discharge from industrial chemical factories	zero
OC	1,1-Dichloroethylene	0.007	Liver problems	Discharge from industrial chemical factories	0.007
OC	cis-1,2-Dichloroethylene	0.07	Liver problems	Discharge from industrial chemical factories	0.07
OC	trans-1,2-Dichloroethylene	0.1	Liver problems	Discharge from industrial chemical factories	0.1
OC	Dichloromethane	0.005	Liver problems; increased risk of cancer	Discharge from drug and chemical factories	zero
OC	1,2-Dichloropropane	0.005	Increased risk of cancer	Discharge from industrial chemical factories	zero
OC	Di(2-ethylhexyl) adipate	0.4	Weight loss, liver problems, or possible reproductive difficulties	Discharge from chemical factories	0.4
OC	Di(2-ethylhexyl) phthalate	0.006	Reproductive difficulties; liver problems; increased risk of cancer	Discharge from rubber and chemical factories	zero
OC	Dinoseb	0.007	Reproductive difficulties	Runoff from herbicide used on soybeans and vegetables	0.007
OC	Dioxin (2,3,7,8-TCDD)	0.00000003	Reproductive difficulties; increased risk of cancer	Emissions from waste incineration and other combustion; discharge from chemical factories	zero
OC	Diquat	0.02	Cataracts	Runoff from herbicide use	0.02
OC	Endothall	0.1	Stomach and intestinal problems	Runoff from herbicide use	0.1
OC	Endrin	0.002	Liver problems	Residue of banned insecticide	0.002
OC	Epichlorohydrin	TT[4]	Increased cancer risk; stomach problems	Discharge from industrial chemical factories; an impurity of some water treatment chemicals	zero
OC	Ethylbenzene	0.7	Liver or kidney problems	Discharge from petroleum refineries	0.7
OC	Ethylene dibromide	0.00005	Problems with liver, stomach, reproductive system, or kidneys; increased risk of cancer	Discharge from petroleum refineries	zero
M	Fecal coliform and *E. coli*	MCL[5]	Fecal coliforms and *E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes may cause short term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune systems.	Human and animal fecal waste	zero[6]
IOC	Fluoride	4.0	Bone disease (pain and tenderness of the bones); children may get mottled teeth	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories	4.0
M	*Giardia lamblia*	TT[7]	Short-term exposure: Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste	zero
OC	Glyphosate	0.7	Kidney problems; reproductive difficulties	Runoff from herbicide use	0.7
DBP	Haloacetic acids (HAA5)	0.060	Increased risk of cancer	Byproduct of drinking water disinfection	n/a[9]
OC	Heptachlor	0.0004	Liver damage; increased risk of cancer	Residue of banned termiticide	zero
OC	Heptachlor epoxide	0.0002	Liver damage; increased risk of cancer	Breakdown of heptachlor	zero
M	Heterotrophic plate count (HPC)	TT[7]	HPC has no health effects; it is an analytic method used to measure the variety of bacteria that are common in water. The lower the concentration of bacteria in drinking water, the better maintained the water system is.	HPC measures a range of bacteria that are naturally present in the environment	n/a

LEGEND

D Disinfectant
DBP Disinfection Byproduct
IOC Inorganic Chemical
M Microorganism
OC Organic Chemical
R Radionuclides

Contaminant		MCL or TT[1] (mg/L)[2]	Potential health effects from long-term[3] exposure above the MCL	Common sources of contaminant in drinking water	Public Health Goal (mg/L)[2]
OC	Hexachlorobenzene	0.001	Liver or kidney problems; reproductive difficulties; increased risk of cancer	Discharge from metal refineries and agricultural chemical factories	zero
OC	Hexachlorocyclopentadiene	0.05	Kidney or stomach problems	Discharge from chemical factories	0.05
IOC	Lead	TT5; Action Level=0.015	Infants and children: Delays in physical or or mental development; children could show slight deficits in attention span and learning abilities; Adults: Kidney problems; high blood pressure	Corrosion of household plumbing systems; erosion of natural deposits	zero
M	*Legionella*	TT7	Legionnaire's Disease, a type of pneumonia	Found naturally in water; multiplies in heating systems	zero
OC	Lindane	0.0002	Liver or kidney problems	Runoff/leaching from insecticide used on cattle, lumber, gardens	0.0002
IOC	Mercury (inorganic)	0.002	Kidney damage	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and croplands	0.002
OC	Methoxychlor	0.04	Reproductive difficulties	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock	0.04
IOC	Nitrate (measured as Nitrogen)	10	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	10
IOC	Nitrite (measured as Nitrogen)	1	Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	1
OC	Oxamyl (Vydate)	0.2	Slight nervous system effects	Runoff/leaching from insecticide used on apples, potatoes, and tomatoes	0.2
OC	Pentachlorophenol	0.001	Liver or kidney problems; increased cancer risk	Discharge from wood-preserving factories	zero
OC	Picloram	0.5	Liver problems	Herbicide runoff	0.5
OC	Polychlorinated biphenyls (PCBs)	0.0005	Skin changes; thymus gland problems; immune deficiencies; reproductive or nervous system difficulties; increased risk of cancer	Runoff from landfills; discharge of waste chemicals	zero
R	Radium 226 and Radium 228 (combined)	5 pCi/L	Increased risk of cancer	Erosion of natural deposits	zero
IOC	Selenium	0.05	Hair or fingernail loss; numbness in fingers or toes; circulatory problems	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines	0.05
OC	Simazine	0.004	Problems with blood	Herbicide runoff	0.004
OC	Styrene	0.1	Liver, kidney, or circulatory system problems	Discharge from rubber and plastic factories; leaching from landfills	0.1
OC	Tetrachloroethylene	0.005	Liver problems; increased risk of cancer	Discharge from factories and dry cleaners	zero
IOC	Thallium	0.002	Hair loss; changes in blood; kidney, intestine, or liver problems	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories	0.0005
OC	Toluene	1	Nervous system, kidney, or liver problems	Discharge from petroleum factories	1
M	Total Coliforms	5.0 percent[4]	Coliforms are bacteria that indicate that other, potentially harmful bacteria may be present. See fecal coliforms and *E. coli*	Naturally present in the environment	zero
DBP	Total Trihalomethanes (TTHMs)	0.080	Liver, kidney or central nervous system problems; increased risk of cancer	Byproduct of drinking water disinfection	n/a[9]
OC	Toxaphene	0.003	Kidney, liver, or thyroid problems; increased risk of cancer	Runoff/leaching from insecticide used on cotton and cattle	zero
OC	2,4,5-TP (Silvex)	0.05	Liver problems	Residue of banned herbicide	0.05
OC	1,2,4-Trichlorobenzene	0.07	Changes in adrenal glands	Discharge from textile finishing factories	0.07
OC	1,1,1-Trichloroethane	0.2	Liver, nervous system, or circulatory problems	Discharge from metal degreasing sites and other factories	0.2
OC	1,1,2-Trichloroethane	0.005	Liver, kidney, or immune system problems	Discharge from industrial chemical factories	0.003
OC	Trichloroethylene	0.005	Liver problems; increased risk of cancer	Discharge from metal degreasing sites and other factories	zero

LEGEND

D Disinfectant
DBP Disinfection Byproduct
IOC Inorganic Chemical
M Microorganism
OC Organic Chemical
R Radionuclides

Contaminant	MCL or TT[1] (mg/L)[2]	Potential health effects from long-term[3] exposure above the MCL	Common sources of contaminant in drinking water	Public Health Goal (mg/L)[2]
M Turbidity	TT[7]	Turbidity is a measure of the cloudiness of water. It is used to indicate water quality and filtration effectiveness (e.g., whether disease-causing organisms are present). Higher turbidity levels are often associated with higher levels of disease-causing microorganisms such as viruses, parasites and some bacteria. These organisms can cause short term symptoms such as nausea, cramps, diarrhea, and associated headaches.	Soil runoff	n/a
R Uranium	30µg/L	Increased risk of cancer, kidney toxicity	Erosion of natural deposits	zero
OC Vinyl chloride	0.002	Increased risk of cancer	Leaching from PVC pipes; discharge from plastic factories	zero
M Viruses (enteric)	TT[7]	Short-term exposure: Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste	zero
OC Xylenes (total)	10	Nervous system damage	Discharge from petroleum factories; discharge from chemical factories	10

LEGEND

D Disinfectant	IOC Inorganic Chemical	OC Organic Chemical
DBP Disinfection Byproduct	M Microorganism	R Radionuclides

NOTES

1 Definitions

- Maximum Contaminant Level Goal (MCLG)—The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.
- Maximum Contaminant Level (MCL)—The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.
- Maximum Residual Disinfectant Level Goal (MRDLG)—The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- Maximum Residual Disinfectant Level (MRDL)—The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Treatment Technique (TT)—A required process intended to reduce the level of a contaminant in drinking water.

2 Units are in milligrams per liter (mg/L) unless otherwise noted. Milligrams per liter are equivalent to parts per million (ppm).

3 Health effects are from long-term exposure unless specified as short-term exposure.

4 Each water system must certify annually, in writing, to the state (using third-party or manufacturers certification) that when it uses acrylamide and/or epichlorohydrin to treat water, the combination (or product) of dose and monomer level does not exceed the levels specified, as follows: Acrylamide = 0.05 percent dosed at 1 mg/L (or equivalent); Epichlorohydrin = 0.01 percent dosed at 20 mg/L (or equivalent).

5 Lead and copper are regulated by a Treatment Technique that requires systems to control the corrosiveness of their water. If more than 10 percent of tap water samples exceed the action level, water systems must take additional steps. For copper, the action level is 1.3 mg/L, and for lead is 0.015 mg/L.

6 A routine sample that is fecal coliform-positive or *E. coli*-positive triggers repeat samples–if any repeat sample is total coliform-positive, the system has an acute MCL violation. A routine sample that is total coliform-positive and fecal coliform-negative or *E. coli*-negative triggers repeat samples–if any repeat sample is fecal coliform-positive or *E. coli*-positive, the system has an acute MCL violation. See also Total Coliforms.

7 EPA's surface water treatment rules require systems using surface water or ground water under the direct influence of surface water to (1) disinfect their water, and (2) filter their water or meet criteria for avoiding filtration so that the following contaminants are controlled at the following levels:

- *Cryptosporidium*: 99 percent removal for systems that filter. Unfiltered systems are required to include Cryptosporidium in their existing watershed control provisions.
- Giardia lamblia: 99.9 percent removal/inactivation
- Viruses: 99.99 percent removal/inactivation
- *Legionella*: No limit, but EPA believes that if *Giardia* and viruses are removed/inactivated according to the treatment techniques in the surface water treatment rule, *Legionella* will also be controlled.
- Turbidity: For systems that use conventional or direct filtration, at no time can turbidity (cloudiness of water) go higher than 1 nephelolometric turbidity unit (NTU), and samples for turbidity must be less than or equal to 0.3 NTU in at least 95 percent of the samples in any month. Systems that use filtration other than conventional or direct filtration must follow state limits, which must include turbidity at no time exceeding 5 NTU.
- HPC: No more than 500 bacterial colonies per milliliter
- Long Term 1 Enhanced Surface Water Treatment; Surface water systems or ground water systems under the direct influence of surface water serving fewer than 10,000 people must comply with the applicable Long Term 1 Enhanced Surface Water Treatment Rule provisions (e.g. turbidity standards, individual filter monitoring, *Cryptosporidium* removal requirements, updated watershed control requirements for unfiltered systems).
- Long Term 2 Enhanced Surface Water Treatment; This rule applies to all surface water systems or ground water systems under the direct influence of surface water. The rule targets additional *Cryptosporidium* treatment requirements for higher risk systems and includes provisions to reduce risks from uncovered finished water storages facilities and to ensure that the systems maintain microbial protection as they take steps to reduce the formation of disinfection byproducts. (Monitoring start dates are staggered by system size. The largest systems (serving at least 100,000 people) will begin monitoring in October 2006 and the smallest systems (serving fewer than 10,000 people) will not begin monitoring until October 2008. After completing monitoring and determining their treatment bin, systems generally have three years to comply with any additional treatment requirements.)
- Filter Backwash Recycling: The Filter Backwash Recycling Rule requires systems that recycle to return specific recycle flows through all processes of the system's existing conventional or direct filtration system or at an alternate location approved by the state.

8 No more than 5.0 percent samples total coliform-positive in a month. (For water systems that collect fewer than 40 routine samples per month, no more than one sample can be total coliform-positive per month.) Every sample that has total coliform must be analyzed for either fecal coliforms or *E. coli*. If two consecutive TC-positive samples, and one is also positive for *E. coli* or fecal coliforms, system has an acute MCL violation.

9 Although there is no collective MCLG for this contaminant group, there are individual MCLGs for some of the individual contaminants:

- Haloacetic acids: dichloroacetic acid (zero); trichloroacetic acid (0.3 mg/L)
- Trihalomethanes: bromodichloromethane (zero); bromoform (zero); dibromochloromethane (0.06 mg/L)

National Secondary Drinking Water Regulation

National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to water systems but does not require systems to comply. However, some states may choose to adopt them as enforceable standards.

Contaminant	Secondary Maximum Contaminant Level
Aluminum	0.05 to 0.2 mg/L
Chloride	250 mg/L
Color	15 (color units)
Copper	1.0 mg/L
Corrosivity	noncorrosive
Fluoride	2.0 mg/L
Foaming Agents	0.5 mg/L
Iron	0.3 mg/L
Manganese	0.05 mg/L
Odor	3 threshold odor number
pH	6.5-8.5
Silver	0.10 mg/L
Sulfate	250 mg/L
Total Dissolved Solids	500 mg/L
Zinc	5 mg/L

For More Information

EPA's Safe Drinking Water Web site:
http://www.epa.gov/safewater/

EPA's Safe Drinking Water Hotline:
(800) 426-4791

To order additional posters or other ground water and drinking water publications, please contact the National Service Center for Environmental Publications at :
(800) 490-9198, or
email: nscep@bps-lmit.com.

EPA United States Environmental Protection Agency

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Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; Y = New York; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information													Contaminant		Screening Levels										Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
1.8E-02	C	5.1E-06	C	1.5E-01	I					1	0.1		ALAR	1596-84-5	2.7E+01	c	9.6E+01	c	4.8E-01	c	2.4E+00	c	3.7E+00	c		8.2E-04	
8.7E-03	I			4.0E-03	I					1	0.1		Acephate	30560-19-1	5.6E+01	c**	2.0E+02	c*					7.7E+00	c*		1.7E-03	
		2.2E-06	I			9.0E-03	I	V		1		1.1E+05	Acetaldehyde	75-07-0	1.0E+01	c**	5.2E+01	c**	1.1E+00	c**	5.6E+00	c**	2.2E+00	c**		4.5E-04	
				2.0E-02	I					1	0.1		Acetochlor	34256-82-1	1.2E+03	n	1.2E+04	n					7.3E+02	n		5.8E-01	
				9.0E-01	I	3.1E+01	A	V		1		1.1E+05	Acetone	67-64-1	6.1E+04	n	6.3E+05	nms	3.2E+04	n	1.4E+05	n	2.2E+04	n		4.5E+00	
				3.0E-03	P	6.0E-02	P	V		1		1.1E+05	Acetone Cyanohydrin	75-86-5	2.0E+02	n	2.1E+03	n	6.3E+01	n	2.6E+02	n	5.8E+01	n		1.2E-02	
						6.0E-02	I	V		1		1.3E+05	Acetonitrile	75-05-8	8.7E+02	n	3.7E+03	n	6.3E+01	n	2.6E+02	n	1.3E+02	n		2.6E-02	
				1.0E-01	I			V		1		2.5E+03	Acetophenone	98-86-2	7.8E+03	ns	1.0E+05	nms					3.7E+03	n		1.1E+00	
3.8E+00	C	1.3E-03	C							1	0.1		Acetylaminofluorene, 2-	53-96-3	1.3E-01	c	4.5E-01	c	1.9E-03	c	9.4E-03	c	1.8E-02	c		8.2E-05	
				5.0E-04	I	2.0E-05	I	V		1		2.3E+04	Acrolein	107-02-8	1.5E-01	n	6.5E-01	n	2.1E-02	n	8.8E-02	n	4.2E-02	n		8.4E-06	
5.0E-01	I	1.0E-04	I	2.0E-03	I	6.0E-03	I			1	0.1		Acrylamide	79-06-1	9.7E-01	c	3.4E+00	c	2.4E-02	c	1.2E-01	c	1.3E-01	c		2.8E-05	
				5.0E-01	I	1.0E-03	I			1	0.1		Acrylic Acid	79-10-7	3.0E+04	n	2.9E+05	nm	1.0E+00	n	4.4E+00	n	1.8E+04	n		3.7E+00	
5.4E-01	I	6.8E-05	I	4.0E-02	A	2.0E-03	I	V		1		1.1E+04	Acrylonitrile	107-13-1	2.4E-01	c*	1.2E+00	c*	3.6E-02	c*	1.8E-01	c*	4.5E-02	c*		9.9E-06	
						6.0E-03	P			1	0.1		Adiponitrile	111-69-3	8.5E+06	nm	3.6E+07	nm	6.3E+00	n	2.6E+01	n					
5.6E-02	C			1.0E-02	I					1	0.1		Alachlor	15972-60-8	8.7E+00	c*	3.1E+01	c					1.2E+00	c	2.0E+00	9.9E-04	1.6E-03
				1.0E-03	I					1	0.1		Aldicarb	116-06-3	6.1E+01	n	6.2E+02	n					3.7E+01	n		9.1E-03	
				1.0E-03	I					1	0.1		Aldicarb Sulfone	1646-88-4	6.1E+01	n	6.2E+02	n					3.7E+01	n		8.0E-03	
1.7E+01	I	4.9E-03	I	3.0E-05	I					1	0.1		Aldrin	309-00-2	2.9E-02	c*	1.0E-01	c	5.0E-04	c	2.5E-03	c	4.0E-03	c		6.5E-04	
				2.5E-01	I					1	0.1		Ally	74223-64-6	1.5E+04	n	1.5E+05	nm					9.1E+03	n		3.5E+00	
				5.0E-03	I	1.0E-04	X			1	0.1		Allyl Alcohol	107-18-6	3.0E+02	n	3.1E+03	n	1.0E-01	n	4.4E-01	n	1.8E+02	n		3.7E-02	
2.1E-02	C	6.0E-06	C			1.0E-03	I	V		1		1.4E+03	Allyl Chloride	107-05-1	6.8E-01	c**	3.4E+00	c**	4.1E-01	c**	2.0E+00	c**	6.5E-01	c**		2.1E-04	
				1.0E+00	P	5.0E-03	P			1			Aluminum	7429-90-5	7.7E+04	n	9.9E+05	nm	5.2E+00	n	2.2E+01	n	3.7E+04	n		5.5E+04	
				4.0E-04	I					1			Aluminum Phosphide	20859-73-8	3.1E+01	n	4.1E+02	n					1.5E+01	n			
				3.0E-04	I					1	0.1		Amdro	67485-29-4	1.8E+01	n	1.8E+02	n					1.1E+01	n		3.9E+03	
				9.0E-03	I					1	0.1		Ametryn	834-12-8	5.5E+02	n	5.5E+03	n					3.3E+02	n		3.5E-01	
2.1E+01	C	6.0E-03	C							1	0.1		Aminobiphenyl, 4-	92-67-1	2.3E-02	c	8.2E-02	c	4.1E-04	c	2.0E-03	c	3.2E-03	c		1.6E-05	
				8.0E-02	P					1	0.1		Aminophenol, m-	591-27-5	4.9E+03	n	4.9E+04	n					2.9E+03	n		1.1E+00	
				2.0E-02	P					1	0.1		Aminophenol, p-	123-30-8	1.2E+03	n	1.2E+04	n					7.3E+02	n		2.8E-01	
				2.5E-03	I					1	0.1		Amitraz	33089-61-1	1.5E+02	n	1.5E+03	n					9.1E+01	n		4.7E+01	
						1.0E-01	I			1			Ammonia	7664-41-7					1.0E+02	n	4.4E+02	n					
				2.0E-01	I					1			Ammonium Sulfamate	7773-06-0	1.6E+04	n	2.0E+05	nm					7.3E+03	n			
5.7E-03	I	1.6E-06	C	7.0E-03	P	1.0E-03	I			1	0.1		Aniline	62-53-3	8.5E+01	c**	3.0E+02	c*	1.0E+00	n	4.4E+00	n	1.2E+01	c*		4.0E-03	
4.0E-02	P			2.0E-03	X					1	0.1		Anthraquinone, 9,10-	84-65-1	1.2E+01	c*	4.3E+01	c*					1.7E+00	c*			
				4.0E-04	I					0.15			Antimony (metallic)	7440-36-0	3.1E+01	n	4.1E+02	n					1.5E+01	n	6.0E+00	6.6E-01	2.7E-01
				5.0E-04	H					0.15			Antimony Pentoxide	1314-60-9	3.9E+01	n	5.1E+02	n					1.8E+01	n			
				9.0E-04	H					0.15			Antimony Potassium Tartrate	11071-15-1	7.0E+01	n	9.2E+02	n					3.3E+01	n			
				4.0E-04	H					0.15			Antimony Tetroxide	1332-81-6	3.1E+01	n	4.1E+02	n					1.5E+01	n			
						2.0E-04	I			0.15			Antimony Trioxide	1309-64-4	2.8E+05	nm	1.2E+06	nm	2.1E-01	n	8.8E-01	n					
				1.3E-02	I					1	0.1		Apollo	74115-24-5	7.9E+02	n	8.0E+03	n					4.7E+02	n		2.9E+01	
2.5E-02	I	7.1E-06	I	5.0E-02	H					1	0.1		Aramite	140-57-8	1.9E+01	c	6.9E+01	c	3.4E-01	c	1.7E+00	c	2.7E+00	c		3.0E-02	
1.5E+00	I	4.3E-03	I	3.0E-04	I	1.5E-05	C			1	0.03		Arsenic, Inorganic	7440-38-2	3.9E-01	c*	1.6E+00	c	5.7E-04	c*	2.9E-03	c*	4.5E-02	c	1.0E+01	1.3E-03	2.9E-01
				3.5E-06	C	5.0E-05	I			1			Arsine	7784-42-1	2.7E-01	n	3.6E+00	n	5.2E-02	n	2.2E-01	n	1.3E-01	n			
				9.0E-03	I					1	0.1		Assure	76578-14-8	5.5E+02	n	5.5E+03	n					3.3E+02	n		5.1E+00	
				5.0E-02	I					1	0.1		Asulam	3337-71-1	3.1E+03	n	3.1E+04	n					1.8E+03	n		4.7E-01	
2.3E-01	C			3.5E-02	I					1	0.1		Atrazine	1912-24-9	2.1E+00	c	7.5E+00	c					2.9E-01	c	3.0E+00	1.9E-04	1.9E-03
8.8E-01	C	2.5E-04	C							1	0.1		Auramine	492-80-8	5.5E-01	c	2.0E+00	c	9.7E-03	c	4.9E-02	c	7.6E-02	c		7.0E-04	
				4.0E-04	I					1	0.1		Avermectin B1	65195-55-3	2.4E+01	n	2.5E+02	n					1.5E+01	n		2.6E+01	
1.1E-01	I	3.1E-05	I					V		1			Azobenzene	103-33-3	5.1E+00	c	2.3E+01	c	7.8E-02	c	4.0E-01	c	1.2E-01	c		9.6E-04	
				2.0E-01	I	5.0E-04	H			0.07			Barium	7440-39-3	1.5E+04	n	1.9E+05	nm	5.2E-01	n	2.2E+00	n	7.3E+03	n	2.0E+03	3.0E+02	8.2E+01
				4.0E-03	I					1	0.1		Baygon	114-26-1	2.4E+02	n	2.5E+03	n					1.5E+02	n		4.7E-02	
				3.0E-02	I					1	0.1		Bayleton	43121-43-3	1.8E+03	n	1.8E+04	n					1.1E+03	n		8.7E-01	
				2.5E-02	I					1	0.1		Baythroid	68359-37-5	1.5E+03	n	1.5E+04	n					9.1E+02	n		2.4E+02	
				3.0E-01	I					1	0.1		Benefin	1861-40-1	1.8E+04	n	1.8E+05	nm					1.1E+04	n		3.6E+02	
				5.0E-02	I					1	0.1		Benomyl	17804-35-2	3.1E+03	n	3.1E+04	n					1.8E+03	n		1.6E+00	
				3.0E-02	I					1	0.1		Bentazon	25057-89-0	1.8E+03	n	1.8E+04	n					1.1E+03	n		2.4E-01	
				1.0E-01	I			V		1		1.2E+03	Benzaldehyde	100-52-7	7.8E+03	ns	1.0E+05	nms					3.7E+03	n		8.1E-01	
5.5E-02	I	7.8E-06	I	4.0E-03	I	3.0E-02	I	V		1		1.8E+03	Benzene	71-43-2	1.1E+00	c*	5.4E+00	c*	3.1E-01	c	1.6E+00	c*	4.1E-01	c	5.0E+00	2.1E-04	2.6E-03
				2.0E-04	X					1	0.1		Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	1.2E+01	n	1.2E+02	n					7.3E+00	n			
				1.0E-03	P			V		1		1.3E+03	Benzenethiol	108-98-5	7.8E+01	n	1.0E+03	n					3.7E+01	n		2.4E-02	
2.3E+02	I	6.7E-02	I	3.0E-03	I				M	1	0.1		Benzidine	92-87-5	5.0E-04	c	7.5E-03	c	1.4E-05	c	1.8E-04	c	9.4E-05	c		2.4E-07	
				4.0E+00	I					1	0.1		Benzoic Acid	65-85-0	2.4E+05	nm	2.5E+06	nm					1.5E+05	n		3.4E+01	
1.3E+01	I							V		1		3.2E+02	Benzotrichloride	98-07-7	4.9E-02	c	2.2E-01	c					5.2E-03	c		1.1E-05	
				1.0E-01	P					1	0.1		Benzyl Alcohol	100-51-6	6.1E+03	n	6.2E+04	n					3.7E+03	n		8.9E-01	
1.7E-01	I	4.9E-05	C	2.0E-03	P	1.0E-03	P	V		1		1.5E+03	Benzyl Chloride	100-44-7	1.0E+00	c*	4.9E+00	c*	5.0E-02	c*	2.5E-01	c*	7.9E-02	c*		8.7E-05	
		2.4E-03	I	2.0E-03	I	2.0E-05	I			0.007			Beryllium and compounds	7440-41-7	1.6E+02	n	2.0E+03	n	1.0E-03	c*	5.1E-03	c*	7.3E+01	n	4.0E+00	5.8E+01	3.2E+00

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Toxicity and Chemical-specific Information												Contaminant		Screening Levels										Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volatile	mutagen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
				1.0E-04	I					1	0.1		Bidrin	141-66-2	6.1E+00	n	6.2E+01	n					3.7E+00	n		8.5E-04	
				9.0E-03	P					1	0.1		Bifenox	42576-02-3	5.5E+02	n	5.5E+03	n					3.3E+02	n		2.5E+00	
				1.5E-02	I					1	0.1		Biphenthrin	82657-04-3	9.2E+02	n	9.2E+03	n					5.5E+02	n		2.5E+03	
8.0E-03	X			5.0E-02	I	4.0E-04	X	V		1		2.1E+02	Biphenyl, 1,1'-	92-52-4	5.1E+01	n	2.1E+02	n	4.2E-01	n	1.8E+00	n	8.3E-01	n		8.7E-03	
7.0E-02	H	1.0E-05	H	4.0E-02	I			V		1		1.0E+03	Bis(2-chloro-1-methylethyl) ether	108-60-1	4.6E+00	c	2.2E+01	c	2.4E-01	c	1.2E+00	c	3.2E-01	c		1.2E-04	
				3.0E-03	P					1	0.1		Bis(2-chloroethoxy)methane	111-91-1	1.8E+02	n	1.8E+03	n					1.1E+02	n		2.5E-02	
1.1E+00	I	3.3E-04	I					V		1		5.1E+03	Bis(2-chloroethyl)ether	111-44-4	2.1E-01	c	1.0E+00	c	7.4E-03	c	3.7E-02	c	1.2E-02	c		3.1E-06	
1.4E-02	I	2.4E-06	C	2.0E-02	I					1	0.1		Bis(2-ethylhexyl)phthalate	117-81-7	3.5E+01	c*	1.2E+02	c	1.0E+00	c	5.1E+00	c	4.8E+00	c	6.0E+00	1.1E+00	1.4E+00
2.2E+02	I	6.2E-02	I					V		1		4.2E+03	Bis(chloromethyl)ether	542-88-1	7.7E-05	c	3.9E-04	c	3.9E-05	c	2.0E-04	c	6.2E-05	c		1.5E-08	
				5.0E-02	I					1	0.1		Bisphenol A	80-05-7	3.1E+03	n	3.1E+04	n					1.8E+03	n		1.4E+02	
				2.0E-01	I	2.0E-02	H			1			Boron And Borates Only	7440-42-8	1.6E+04	n	2.0E+05	nm	2.1E+01	n	8.8E+01	n	7.3E+03	n		2.3E+01	
				4.0E-02	C	1.3E-02	C			1			Boron Trifluoride	7637-07-2	3.1E+03	n	4.1E+04	n	1.4E+01	n	5.7E+01	n	1.5E+03	n			
7.0E-01	I			4.0E-03	I					1			Bromate	15541-45-4	9.1E-01	c	4.1E+00	c					9.6E-02	c	1.0E+01	7.4E-04	7.7E-02
2.0E+00	X	6.0E-04	X					V		1		2.4E+03	Bromo-2-chloroethane, 1-	107-04-0	2.4E-02	c	1.2E-01	c	4.1E-03	c	2.0E-02	c	6.5E-03	c		1.8E-06	
				8.0E-03	I	6.0E-02	I	V		1		6.8E+02	Bromobenzene	108-86-1	3.0E+02	n	1.8E+03	ns	6.3E+01	n	2.6E+02	n	8.8E+01	n		5.9E-02	
						4.0E-02	X	V		1		4.0E+03	Bromochloromethane	74-97-5	1.6E+02	n	6.8E+02	n	4.2E+01	n	1.8E+02	n	8.3E+01	n		2.1E-02	
6.2E-02	I	3.7E-05	C	2.0E-02	I			V		1		9.3E+02	Bromodichloromethane	75-27-4	2.7E-01	c	1.4E+00	c	6.6E-02	c	3.3E-01	c	1.2E-01	c	8.0E+01(F)	3.2E-05	2.2E-02
7.9E-03	I	1.1E-06	I	2.0E-02	I					1	0.1		Bromoform	75-25-2	6.2E+01	c*	2.2E+02	c*	2.2E+00	c	1.1E+01	c	8.5E+00	c*	8.0E+01(F)	2.3E-03	2.1E-02
				1.4E-03	I	5.0E-03	I	V		1		3.6E+03	Bromomethane	74-83-9	7.3E+00	n	3.2E+01	n	5.2E+00	n	2.2E+01	n	8.7E+00	n		2.2E-03	
				5.0E-03	H					1	0.1		Bromophos	2104-96-3	3.1E+02	n	3.1E+03	n					1.8E+02	n		7.7E-01	
				2.0E-02	I					1	0.1		Bromoxynil	1689-84-5	1.2E+03	n	1.2E+04	n					7.3E+02	n		6.3E-01	
				2.0E-02	I					1	0.1		Bromoxynil Octanoate	1689-99-2	1.2E+03	n	1.2E+04	n					7.3E+02	n		6.4E+00	
3.4E+00	C	3.0E-05	I			2.0E-03	I	V		1		6.7E+02	Butadiene, 1,3-	106-99-0	5.4E-02	c*	2.6E-01	c*	8.1E-02	c*	4.1E-01	c*	1.8E-02	c		9.7E-06	
				1.0E-01	I					1	0.1		Butanol, N-	71-36-3	6.1E+03	n	6.2E+04	n					3.7E+03	n		7.6E-01	
1.9E-03	P			2.0E-01	I					1	0.1		Butyl Benzyl Phthlate	85-68-7	2.6E+02	c*	9.1E+02	c					3.5E+01	c		5.1E-01	
				2.0E+00	P	3.0E+01	P			1	0.1		Butyl alcohol, sec-	78-92-2	1.2E+05	nm	1.2E+06	nm	3.1E+04	n	1.3E+05	n	7.3E+04	n		1.5E+01	
				5.0E-02	I					1	0.1		Butylate	2008-41-5	3.1E+03	n	3.1E+04	n					1.8E+03	n		1.8E+00	
2.0E-04	C	5.7E-08	C							1	0.1		Butylated hydroxyanisole	25013-16-5	2.4E+03	c	8.6E+03	c	4.3E+01	c	2.2E+02	c	3.4E+02	c		6.3E-01	
				5.0E-02	P			V		1		1.1E+02	Butylbenzene, n-	104-51-8	3.9E+03	ns	5.1E+04	ns					1.8E+03	n		5.9E+00	
				1.0E+00	I					1	0.1		Butylphthalyl Butylglycolate	85-70-1	6.1E+04	n	6.2E+05	nm					3.7E+04	n		8.3E+02	
				2.0E-02	A					1	0.1		Cacodylic Acid	75-60-5	1.2E+03	n	1.2E+04	n					7.3E+02	n			
		1.8E-03	I	1.0E-03	I	2.0E-05	C			0.025	0.001		Cadmium (Diet)	7440-43-9	7.0E+01	n	8.0E+02	n									
		1.8E-03	I	5.0E-04	I	2.0E-05	C			0.05	0.001		Cadmium (Water)	7440-43-9					1.4E-03	c*	6.8E-03	c*	1.8E+01	n	5.0E+00	1.4E+00	3.8E-01
				5.0E-01	I					1	0.1		Caprolactam	105-60-2	3.1E+04	n	3.1E+05	nm					1.8E+04	n		4.5E+00	
1.5E-01	C	4.3E-05	C	2.0E-03	I					1	0.1		Captafol	2425-06-1	3.2E+00	c*	1.1E+01	c	5.7E-02	c	2.9E-01	c	4.5E-01	c		7.9E-04	
2.3E-03	C	6.6E-07	C	1.3E-01	I					1	0.1		Captan	133-06-2	2.1E+02	c*	7.5E+02	c	3.7E+00	c	1.9E+01	c	2.9E+01	c		2.1E-02	
				1.0E-01	I					1	0.1		Carbaryl	63-25-2	6.1E+03	n	6.2E+04	n					3.7E+03	n		3.3E+00	
				5.0E-03	I					1	0.1		Carbofuran	1563-66-2	3.1E+02	n	3.1E+03	n					1.8E+02	n	4.0E+01	7.1E-02	1.6E-02
				1.0E-01	I	7.0E-01	I	V		1		7.4E+02	Carbon Disulfide	75-15-0	8.2E+02	ns	3.7E+03	ns	7.3E+02	n	3.1E+03	n	1.0E+03	n		3.1E-01	
7.0E-02	I	6.0E-06	I	4.0E-03	I	1.0E-01	I	V		1		4.6E+02	Carbon Tetrachloride	56-23-5	6.1E-01	c	3.0E+00	c	4.1E-01	c	2.0E+00	c	4.4E-01	c	5.0E+00	1.7E-04	1.9E-03
				1.0E-02	I					1	0.1		Carbosulfan	55285-14-8	6.1E+02	n	6.2E+03	n					3.7E+02	n		8.8E+00	
				1.0E-01	I					1	0.1		Carboxin	5234-68-4	6.1E+03	n	6.2E+04	n					3.7E+03	n		2.0E+00	
						9.0E-04	I			1			Ceric oxide	1306-38-3	1.3E+06	nm	5.4E+06	nm	9.4E-01	n	3.9E+00	n					
				1.0E-01	I					1	0.1		Chloral Hydrate	302-17-0	6.1E+03	n	6.2E+04	n					3.7E+03	n		7.4E-01	
				1.5E-02	I					1	0.1		Chloramben	133-90-4	9.2E+02	n	9.2E+03	n					5.5E+02	n		1.3E-01	
4.0E-01	H									1	0.1		Chloranil	118-75-2	1.2E+00	c	4.3E+00	c					1.7E-01	c		1.4E-04	
3.5E-01	I	1.0E-04	I	5.0E-04	I	7.0E-04	I			1	0.04		Chlordane	12789-03-6	1.6E+00	c*	6.5E+00	c*	2.4E-02	c*	1.2E-01	c*	1.9E-01	c*	2.0E+00	1.3E-02	1.4E-01
1.0E+01	I	4.6E-03	C	3.0E-04	I					1	0.1		Chlordecone (Kepone)	143-50-0	4.9E-02	c	1.7E-01	c	5.3E-04	c	2.7E-03	c	6.7E-03	c		2.4E-04	
				7.0E-04	A					1	0.1		Chlorfenvinphos	470-90-6	4.3E+01	n	4.3E+02	n					2.6E+01	n		7.0E-02	
				2.0E-02	I					1	0.1		Chlorimuron, Ethyl-	90982-32-4	1.2E+03	n	1.2E+04	n					7.3E+02	n		2.5E-01	
				1.0E-01	I	1.5E-04	A			1			Chlorine	7782-50-5	7.5E+03	n	9.1E+04	n	1.5E-01	n	6.4E-01	n	3.7E+03	n		1.6E+00	
				3.0E-02	I	2.0E-04	I			1			Chlorine Dioxide	10049-04-4	2.3E+03	n	3.0E+04	n	2.1E-01	n	8.8E-01	n	1.1E+03	n			
				3.0E-02	I					1			Chlorite (Sodium Salt)	7758-19-2	2.3E+03	n	3.1E+04	n					1.1E+03	n	1.0E+03		
						5.0E+01	I	V		1		1.2E+03	Chloro-1,1-difluoroethane, 1-	75-68-3	5.8E+04	ns	2.4E+05	nms	5.2E+04	n	2.2E+05	n	1.0E+05	n		5.2E+01	
		3.0E-04	I	2.0E-02	H	2.0E-02	I	V		1		7.5E+02	Chloro-1,3-butadiene, 2-	126-99-8	9.4E-03	c	4.7E-02	c	8.1E-03	c	4.1E-02	c	1.6E-02	c		8.5E-06	
4.6E-01	H									1	0.1		Chloro-2-methylaniline HCl, 4-	3165-93-3	1.1E+00	c	3.7E+00	c					1.5E-01	c		8.3E-05	
1.0E-01	P	7.7E-05	C	3.0E-03	X					1	0.1		Chloro-2-methylaniline, 4-	95-69-2	4.9E+00	c*	1.7E+01	c	3.2E-02	c	1.6E-01	c	6.7E-01	c		3.8E-04	
2.7E-01	X									1	0.1		Chloroacetaldehyde, 2-	107-20-0	1.8E+00	c	6.4E+00	c					2.5E-01	c		5.0E-05	
				2.0E-03	H					1	0.1		Chloroacetic Acid	79-11-8	1.2E+02	n	1.2E+03	n					7.3E+01	n	6.0E+01	1.5E-02	1.2E-02
						3.0E-05	I			1	0.1		Chloroacetophenone, 2-	532-27-4	4.3E+04	n	1.8E+05	nm	3.1E-02	n	1.3E-01	n					
2.0E-01	P			4.0E-03	I					1	0.1		Chloroaniline, p-	106-47-8	2.4E+00	c	8.6E+00	c					3.4E-01	c		1.4E-04	
				2.0E-02	I	5.0E-02	P	V		1		7.6E+02	Chlorobenzene	108-90-7	2.9E+02	n	1.4E+03	ns	5.2E+01	n	2.2E+02	n	9.1E+01	n	1.0E+02	6.2E-02	6.8E-02
1.1E-01	C	3.1E-05	C	2.0E-02	I					1	0.1		Chlorobenzilate	510-15-6	4.4E+00	c	1.6E+01	c	7.8E-02	c	4.0E-01	c	6.1E-01	c		2.0E-03	
				3.0E-02	X					1	0.1		Chlorobenzoic Acid, p-	74-11-3	1.8E+03	n	1.8E+04	n					1.1E+03	n		2.8E-01	
				3.0E-03	P	3.0E-01	P	V		1		1.2E+02	Chlorobenzotrifluoride, 4-	98-56-6	2.1E+02	ns	2.3E+03	ns	3.1E+02	n	1.3E+03	n	9.3E+01	n		3.3E-01	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; Y = New York; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information													Contaminant		Screening Levels										Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
				4.0E-02	P			V		1		7.3E+02	Chlorobutane, 1-	109-69-3	3.1E+03	ns	4.1E+04	ns					1.5E+03	n		5.9E-01	
						5.0E+01	I	V		1		1.7E+03	Chlorodifluoromethane	75-45-6	5.3E+04	ns	2.2E+05	nms	5.2E+04	n	2.2E+05	n	1.0E+05	n		4.3E+01	
3.1E-02	C	2.3E-05	I	1.0E-02	I	9.8E-02	A	V		1		2.5E+03	Chloroform	67-66-3	2.9E-01	c	1.5E+00	c	1.1E-01	c	5.3E-01	c	1.9E-01	c	8.0E+01(F)	5.3E-05	2.2E-02
						9.0E-02	I	V		1		1.3E+03	Chloromethane	74-87-3	1.2E+02	n	5.0E+02	n	9.4E+01	n	3.9E+02	n	1.9E+02	n		4.9E-02	
2.4E+00	C	6.9E-04	C					V		1		2.6E+04	Chloromethyl Methyl Ether	107-30-2	1.9E-02	c	9.4E-02	c	3.5E-03	c	1.8E-02	c	5.6E-03	c		1.2E-06	
				8.0E-02	I			V		1		1.8E+02	Chloronaphthalene, Beta-	91-58-7	6.3E+03	ns	8.2E+04	ns					2.9E+03	n		1.5E+01	
3.0E-01	P			3.0E-03	P	1.0E-05	X			1	0.1		Chloronitrobenzene, o-	88-73-3	1.6E+00	c	5.7E+00	c	1.0E-02	n	4.4E-02	n	2.2E-01	c		2.1E-04	
6.3E-03	P			1.0E-03	P	6.0E-04	P			1	0.1		Chloronitrobenzene, p-	100-00-5	6.1E+01	n	2.7E+02	c**	6.3E-01	n	2.6E+00	n	1.1E+01	c**		9.9E-03	
				5.0E-03	I			V		1		2.2E+04	Chlorophenol, 2-	95-57-8	3.9E+02	n	5.1E+03	n					1.8E+02	n		1.5E-01	
						4.0E-04	C	V		1		6.2E+02	Chloropicrin	76-06-2	2.1E+00	n	8.8E+00	n	4.2E-01	n	1.8E+00	n	8.3E-01	n		2.5E-04	
3.1E-03	C	8.9E-07	C	1.5E-02	I					1	0.1		Chlorothalonil	1897-45-6	1.6E+02	c**	5.6E+02	c*	2.7E+00	c	1.4E+01	c	2.2E+01	c*		4.9E-02	
				2.0E-02	I			V		1		9.1E+02	Chlorotoluene, o-	95-49-8	1.6E+03	ns	2.0E+04	ns					7.3E+02	n		7.1E-01	
				2.0E-02	X			V		1		2.5E+02	Chlorotoluene, p-	106-43-4	1.6E+03	ns	2.0E+04	ns					7.3E+02	n		7.1E-01	
2.4E+02	C	6.9E-02	C							1	0.1		Chlorozotocin	54749-90-5	2.0E-03	c	7.2E-03	c	3.5E-05	c	1.8E-04	c	2.8E-04	c		6.2E-08	
				2.0E-01	I					1	0.1		Chlorpropham	101-21-3	1.2E+04	n	1.2E+05	nm					7.3E+03	n		6.6E+00	
				3.0E-03	I					1	0.1		Chlorpyrifos	2921-88-2	1.8E+02	n	1.8E+03	n					1.1E+02	n		1.6E+00	
				1.0E-02	H					1	0.1		Chlorpyrifos Methyl	5598-13-0	6.1E+02	n	6.2E+03	n					3.7E+02	n		1.7E+00	
				5.0E-02	I					1	0.1		Chlorsulfuron	64902-72-3	3.1E+03	n	3.1E+04	n					1.8E+03	n		1.5E+00	
				8.0E-04	H					1	0.1		Chlorthiophos	60238-56-4	4.9E+01	n	4.9E+02	n					2.9E+01	n		7.5E-01	
				1.5E+00	I					0.013			Chromium(III), Insoluble Salts	16065-83-1	1.2E+05	nm	1.5E+06	nm					5.5E+04	n		9.9E+07	
5.0E-01	J	8.4E-02	S	3.0E-03	I	1.0E-04	I		M	0.025			Chromium(VI)	18540-29-9	2.9E-01	c	5.6E+00	c	1.1E-05	c	1.5E-04	c	4.3E-02	c		8.3E-04	
										0.013			Chromium, Total	7440-47-3											1.0E+02		1.8E+05
		9.0E-03	P	3.0E-04	P	6.0E-06	P			1			Cobalt	7440-48-4	2.3E+01	n	3.0E+02	n	2.7E-04	c*	1.4E-03	c*	1.1E+01	n		4.9E-01	
		6.2E-04	I						M	1	0.1		Coke Oven Emissions	8007-45-2					1.5E-03	c	2.0E-02	c					
				4.0E-02	H					1			Copper	7440-50-8	3.1E+03	n	4.1E+04	n					1.5E+03	n	1.3E+03	5.1E+01	4.6E+01
				5.0E-02	I	6.0E-01	C			1	0.1		Cresol, m-	108-39-4	3.1E+03	n	3.1E+04	n	6.3E+02	n	2.6E+03	n	1.8E+03	n		1.5E+00	
				5.0E-02	I	6.0E-01	C			1	0.1		Cresol, o-	95-48-7	3.1E+03	n	3.1E+04	n	6.3E+02	n	2.6E+03	n	1.8E+03	n		1.5E+00	
				5.0E-03	H	6.0E-01	C			1	0.1		Cresol, p-	106-44-5	3.1E+02	n	3.1E+03	n	6.3E+02	n	2.6E+03	n	1.8E+02	n		1.5E-01	
				1.0E-01	X					1	0.1		Cresol, p-chloro-m-	59-50-7	6.1E+03	n	6.2E+04	n					3.7E+03	n		4.3E+00	
				1.0E-01	A	6.0E-01	C	V		1		5.0E+04	Cresols	1319-77-3	7.5E+03	n	9.1E+04	ns	6.3E+02	n	2.6E+03	n	9.3E+02	n		7.6E-01	
1.9E+00	H			1.0E-03	P			V		1		1.7E+04	Crotonaldehyde, trans-	123-73-9	3.4E-01	c	1.5E+00	c					3.5E-02	c		7.2E-06	
				1.0E-01	I	4.0E-01	I	V		1		2.7E+02	Cumene	98-82-8	2.1E+03	ns	1.1E+04	ns	4.2E+02	n	1.8E+03	n	6.8E+02	n		1.1E+00	
2.2E-01	C	6.3E-05	C							1	0.1		Cupferron	135-20-6	2.2E+00	c	7.8E+00	c	3.9E-02	c	1.9E-01	c	3.1E-01	c		5.3E-04	
8.4E-01	H			2.0E-03	H					1	0.1		Cyanazine	21725-46-2	5.8E-01	c	2.1E+00	c					8.0E-02	c		3.7E-05	
													Cyanides														
				4.0E-02	I					1			~Calcium Cyanide	592-01-8	3.1E+03	n	4.1E+04	n					1.5E+03	n			
				5.0E-03	I					1			~Copper Cyanide	544-92-3	3.9E+02	n	5.1E+03	n					1.8E+02	n			
				2.0E-02	I			V		1		1.0E+07	~Cyanide (CN-)	57-12-5	1.6E+03	n	2.0E+04	n					7.3E+02	n	2.0E+02	7.4E+00	2.0E+00
				4.0E-02	I			V		1			~Cyanogen	460-19-5	3.1E+03	n	4.1E+04	n					1.5E+03	n			
				9.0E-02	I			V		1			~Cyanogen Bromide	506-68-3	7.0E+03	n	9.2E+04	n					3.3E+03	n			
				5.0E-02	I			V		1			~Cyanogen Chloride	506-77-4	3.9E+03	n	5.1E+04	n					1.8E+03	n			
				6.0E-04	I	8.0E-04	I	V		1			~Hydrogen Cyanide	74-90-8	4.7E+01	n	6.1E+02	n	8.3E-01	n	3.5E+00	n	1.6E+00	n			
				5.0E-02	I					1			~Potassium Cyanide	151-50-8	3.9E+03	n	5.1E+04	n					1.8E+03	n			
				2.0E-01	I					0.04			~Potassium Silver Cyanide	506-61-6	1.6E+04	n	2.0E+05	nm					7.3E+03	n			
				1.0E-01	I					0.04			~Silver Cyanide	506-64-9	7.8E+03	n	1.0E+05	nm					3.7E+03	n			
				4.0E-02	I					1			~Sodium Cyanide	143-33-9	3.1E+03	n	4.1E+04	n					1.5E+03	n	2.0E+02		
				2.0E-04	P			V		1		4.6E+03	~Thiocyanate	463-56-9	1.6E+01	n	2.0E+02	n					7.3E+00	n		1.5E-03	
				5.0E-02	I					1			~Zinc Cyanide	557-21-1	3.9E+03	n	5.1E+04	n					1.8E+03	n			
						6.0E+00	I	V		1		1.2E+02	Cyclohexane	110-82-7	7.0E+03	ns	2.9E+04	ns	6.3E+03	n	2.6E+04	n	1.3E+04	n		1.3E+01	
2.3E-02	H									1	0.1		Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	2.1E+01	c	7.5E+01	c					2.9E+00	c		1.7E-02	
				5.0E+00	I	7.0E-01	P			1	0.1		Cyclohexanone	108-94-1	3.1E+05	nm	3.1E+06	nm	7.3E+02	n	3.1E+03	n	1.8E+05	n		4.3E+01	
				2.0E-01	I					1	0.1		Cyclohexylamine	108-91-8	1.2E+04	n	1.2E+05	nm					7.3E+03	n		1.9E+00	
				5.0E-03	I					1	0.1		Cyhalothrin/karate	68085-85-8	3.1E+02	n	3.1E+03	n					1.8E+02	n		1.2E+02	
				1.0E-02	I					1	0.1		Cypermethrin	52315-07-8	6.1E+02	n	6.2E+03	n					3.7E+02	n		5.8E+01	
				7.5E-03	I					1	0.1		Cyromazine	66215-27-8	4.6E+02	n	4.6E+03	n					2.7E+02	n		7.0E-02	
2.4E-01	I	6.9E-05	C							1	0.1		DDD	72-54-8	2.0E+00	c	7.2E+00	c	3.5E-02	c	1.8E-01	c	2.8E-01	c		6.6E-02	
3.4E-01	I	9.7E-05	C							1	0.1		DDE, p,p'-	72-55-9	1.4E+00	c	5.1E+00	c	2.5E-02	c	1.3E-01	c	2.0E-01	c		4.7E-02	
3.4E-01	I	9.7E-05	I	5.0E-04	I					1	0.03		DDT	50-29-3	1.7E+00	c*	7.0E+00	c*	2.5E-02	c	1.3E-01	c	2.0E-01	c*		6.7E-02	
				1.0E-02	I					1	0.1		Dacthal	1861-32-1	6.1E+02	n	6.2E+03	n					3.7E+02	n		4.5E-01	
				3.0E-02	I					1	0.1		Dalapon	75-99-0	1.8E+03	n	1.8E+04	n					1.1E+03	n	2.0E+02	2.3E-01	4.1E-02
7.0E-04	I			7.0E-03	I					1	0.1		Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	4.3E+02	n	2.5E+03	c**					9.6E+01	c**		5.3E+01	
				4.0E-05	I					1	0.1		Demeton	8065-48-3	2.4E+00	n	2.5E+01	n					1.5E+00	n			
1.2E-03	I			6.0E-01	I					1	0.1		Di(2-ethylhexyl)adipate	103-23-1	4.1E+02	c*	1.4E+03	c					5.6E+01	c	4.0E+02	4.0E+00	2.9E+01
6.1E-02	H									1	0.1		Diallate	2303-16-4	8.0E+00	c	2.8E+01	c					1.1E+00	c		1.6E-03	
				7.0E-04	A					1	0.1		Diazinon	333-41-5	4.3E+01	n	4.3E+02	n					2.6E+01	n		1.6E-01	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; Y = New York; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information													Contaminant		Screening Levels												Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	voc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
8.0E-01	P	6.0E-03	P	2.0E-04	P	2.0E-04	I	V	M	1		9.8E+02	Dibromo-3-chloropropane, 1,2-	96-12-8	5.4E-03	c	6.9E-02	c	1.6E-04	c	2.0E-03	c	3.2E-04	c	2.0E-01	1.4E-07	8.6E-05
				1.0E-02	I					1	0.1		Dibromobenzene, 1,4-	106-37-6	6.1E+02	n	6.2E+03	n					3.7E+02	n		3.5E-01	
8.4E-02	I	2.7E-05	C	2.0E-02	I			V		1	0.1	8.0E+02	Dibromochloromethane	124-48-1	6.8E-01	c	3.3E+00	c	9.0E-02	c	4.5E-01	c	1.5E-01	c	8.0E+01(F)	3.9E-05	2.1E-02
2.0E+00	I	6.0E-04	I	9.0E-03	I	9.0E-03	I	V		1		1.3E+03	Dibromoethane, 1,2-	106-93-4	3.4E-02	c	1.7E-01	c	4.1E-03	c	2.0E-02	c	6.5E-03	c	5.0E-02	1.8E-06	1.4E-05
				1.0E-02	H	4.0E-03	X	V		1		2.8E+03	Dibromomethane (Methylene Bromide)	74-95-3	2.5E+01	n	1.1E+02	n	4.2E+00	n	1.8E+01	n	8.2E+00	n		2.0E-03	
				1.0E-01	I					1	0.1		Dibutyl Phthalate	84-74-2	6.1E+03	n	6.2E+04	n					3.7E+03	n		9.2E+00	
				3.0E-04	P					1	0.1		Dibutyltin Compounds	NA	1.8E+01	n	1.8E+02	n					1.1E+01	n			
				3.0E-02	I					1	0.1		Dicamba	1918-00-9	1.8E+03	n	1.8E+04	n					1.1E+03	n		2.8E-01	
		4.2E-03	P					V		1		5.2E+02	Dichloro-2-butene, 1,4-	764-41-0	6.9E-03	c	3.5E-02	c	5.8E-04	c	2.9E-03	c	1.2E-03	c		5.4E-07	
		4.2E-03	P					V		1	0.1	5.2E+02	Dichloro-2-butene, cis-1,4-	1476-11-5	6.9E-03	c	3.5E-02	c	5.8E-04	c	2.9E-03	c	1.2E-03	c		5.4E-07	
		4.2E-03	P					V		1	0.1	7.6E+02	Dichloro-2-butene, trans-1,4-	110-57-6	6.9E-03	c	3.5E-02	c	5.8E-04	c	2.9E-03	c	1.2E-03	c		5.4E-07	
5.0E-02	I			4.0E-03	I					1	0.1		Dichloroacetic Acid	79-43-6	9.7E+00	c*	3.4E+01	c*					1.3E+00	c	6.0E+01	2.8E-04	1.2E-02
				9.0E-02	I	2.0E-01	H	V		1		3.8E+02	Dichlorobenzene, 1,2-	95-50-1	1.9E+03	ns	9.8E+03	ns	2.1E+02	n	8.8E+02	n	3.7E+02	n	6.0E+02	3.6E-01	5.8E-01
5.4E-03	C	1.1E-05	C	7.0E-02	A	8.0E-01	I	V		1			Dichlorobenzene, 1,4-	106-46-7	2.4E+00	c	1.2E+01	c	2.2E-01	c	1.1E+00	c	4.3E-01	c	7.5E+01	4.1E-04	7.2E-02
4.5E-01	I	3.4E-04	C							1	0.1		Dichlorobenzidine, 3,3'-	91-94-1	1.1E+00	c	3.8E+00	c	7.2E-03	c	3.6E-02	c	1.5E-01	c		9.8E-04	
				9.0E-03	X					1	0.1		Dichlorobenzophenone, 4,4'-	90-98-2	5.5E+02	n	5.5E+03	n					3.3E+02	n		2.0E+00	
				2.0E-01	I	1.0E-01	X	V		1		8.5E+02	Dichlorodifluoromethane	75-71-8	9.4E+01	n	4.0E+02	n	1.0E+02	n	4.4E+02	n	2.0E+02	n		3.1E-01	
5.7E-03	C	1.6E-06	C	2.0E-01	P			V		1		1.7E+03	Dichloroethane, 1,1-	75-34-3	3.3E+00	c	1.7E+01	c	1.5E+00	c	7.7E+00	c	2.4E+00	c		6.9E-04	
9.1E-02	I	2.6E-05	I	6.0E-03	X	7.0E-03	P	V		1		3.0E+03	Dichloroethane, 1,2-	107-06-2	4.3E-01	c*	2.2E+00	c*	9.4E-02	c*	4.7E-01	c*	1.5E-01	c*	5.0E+00	4.2E-05	1.4E-03
				5.0E-02	I	2.0E-01	I	V		1		1.2E+03	Dichloroethylene, 1,1-	75-35-4	2.4E+02	n	1.1E+03	n	2.1E+02	n	8.8E+02	n	3.4E+02	n	7.0E+00	1.2E-01	2.5E-03
				9.0E-03	H			V		1		1.3E+03	Dichloroethylene, 1,2- (Mixed Isomers)	540-59-0	7.0E+02	n	9.2E+03	ns					3.3E+02	n		9.7E-02	
				2.0E-03	I			V		1		2.4E+03	Dichloroethylene, 1,2-cis-	156-59-2	1.6E+02	n	2.0E+03	n					7.3E+01	n	7.0E+01	2.1E-02	2.1E-02
				2.0E-02	I	6.0E-02	P	V		1		1.7E+03	Dichloroethylene, 1,2-trans-	156-60-5	1.5E+02	n	6.9E+02	n	6.3E+01	n	2.6E+02	n	1.1E+02	n	1.0E+02	3.1E-02	2.9E-02
				3.0E-03	I					1	0.1		Dichlorophenol, 2,4-	120-83-2	1.8E+02	n	1.8E+03	n					1.1E+02	n		1.3E-01	
				1.0E-02	I					1	0.05		Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	6.9E+02	n	7.7E+03	n					3.7E+02	n	7.0E+01	9.5E-02	1.8E-02
				8.0E-03	I					1	0.1		Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6	4.9E+02	n	4.9E+03	n					2.9E+02	n		1.2E-01	
3.6E-02	C	1.0E-05	C	9.0E-02	A	4.0E-03	I	V		1		1.4E+03	Dichloropropane, 1,2-	78-87-5	9.4E-01	c*	4.7E+00	c*	2.4E-01	c*	1.2E+00	c*	3.9E-01	c*	5.0E+00	1.3E-04	1.7E-03
				2.0E-02	P			V		1		1.5E+03	Dichloropropane, 1,3-	142-28-9	1.6E+03	ns	2.0E+04	ns					7.3E+02	n		2.5E-01	
				3.0E-03	I					1	0.1		Dichloropropanol, 2,3-	616-23-9	1.8E+02	n	1.8E+03	n					1.1E+02	n		2.3E-02	
1.0E-01	I	4.0E-06	I	3.0E-02	I	2.0E-02	I	V		1		1.6E+03	Dichloropropene, 1,3-	542-75-6	1.7E+00	c*	8.3E+00	c*	6.1E-01	c*	3.1E+00	c*	4.3E-01	c*		1.5E-04	
2.9E-01	I	8.3E-05	C	5.0E-04	I	5.0E-04	I			1	0.1		Dichlorvos	62-73-7	1.7E+00	c*	5.9E+00	c*	2.9E-02	c*	1.5E-01	c*	2.3E-01	c*		7.1E-05	
				8.0E-03	P	7.0E-03	P	V		1		1.3E+02	Dicyclopentadiene	77-73-6	3.1E+01	n	1.3E+02	ns	7.3E+00	n	3.1E+01	n	1.4E+01	n		4.8E-02	
1.6E+01	I	4.6E-03	I	5.0E-05	I					1	0.1		Dieldrin	60-57-1	3.0E-02	c	1.1E-01	c	5.3E-04	c	2.7E-03	c	4.2E-03	c		1.7E-04	
		3.0E-04	C			5.0E-03	I			1	0.1		Diesel Engine Exhaust	NA					8.1E-03	c	4.1E-02	c					
						3.0E-03	C			1	0.1		Diethanolamine	111-42-2	4.3E+06	nm	1.8E+07	nm	3.1E+00	n	1.3E+01	n					
				8.0E-01	I					1	0.1		Diethyl Phthalate	84-66-2	4.9E+04	n	4.9E+05	nm					2.9E+04	n		1.2E+01	
				3.0E-02	P	1.0E-04	P			1	0.1		Diethylene Glycol Monobutyl Ether	112-34-5	1.8E+03	n	1.8E+04	n	1.0E-01	n	4.4E-01	n	1.1E+03	n		2.4E-01	
				6.0E-02	P	3.0E-04	P			1	0.1		Diethylene Glycol Monoethyl Ether	111-90-0	3.6E+03	n	3.6E+04	n	3.1E-01	n	1.3E+00	n	2.2E+03	n		4.4E-01	
				1.0E-03	P					1	0.1		Diethylformamide	617-84-5	6.1E+01	n	6.2E+02	n					3.7E+01	n		7.5E-03	
3.5E+02	C	1.0E-01	C							1	0.1		Diethylstilbestrol	56-53-1	1.4E-03	c	4.9E-03	c	2.4E-05	c	1.2E-04	c	1.9E-04	c		1.1E-04	
				8.0E-02	I					1	0.1		Difenzoquat	43222-48-6	4.9E+03	n	4.9E+04	n					2.9E+03	n			
				2.0E-02	I					1	0.1		Diflubenzuron	35367-38-5	1.2E+03	n	1.2E+04	n					7.3E+02	n		8.2E-01	
						4.0E+01	I	V		1		1.4E+03	Difluoroethane, 1,1-	75-37-6	5.2E+04	ns	2.2E+05	nms	4.2E+04	n	1.8E+05	n	8.3E+04	n		2.8E+01	
4.4E-02	C	1.3E-05	C							1	0.1		Dihydrosafrole	94-58-6	1.1E+01	c	3.9E+01	c	1.9E-01	c	9.4E-01	c	1.5E+00	c		1.9E-03	
						7.0E-01	P	V		1		2.3E+03	Diisopropyl Ether	108-20-3	2.4E+03	ns	1.0E+04	ns	7.3E+02	n	3.1E+03	n	1.5E+03	n		3.7E-01	
				8.0E-02	I			V		1		5.3E+02	Diisopropyl Methylphosphonate	1445-75-6	6.3E+03	ns	8.2E+04	ns					2.9E+03	n		8.3E-01	
				2.0E-02	I					1	0.1		Dimethipin	55290-64-7	1.2E+03	n	1.2E+04	n					7.3E+02	n		1.6E-01	
				2.0E-04	I					1	0.1		Dimethoate	60-51-5	1.2E+01	n	1.2E+02	n					7.3E+00	n		1.6E-03	
1.4E-02	H									1	0.1		Dimethoxybenzidine, 3,3'-	119-90-4	3.5E+01	c	1.2E+02	c					4.8E+00	c		5.8E-03	
1.7E-03	P			6.0E-02	P					1	0.1		Dimethyl methylphosphonate	756-79-6	2.9E+02	c*	1.0E+03	c*					4.0E+01	c*		8.3E-03	
4.6E+00	C	1.3E-03	C							1	0.1		Dimethylamino azobenzene [p-]	60-11-7	1.1E-01	c	3.7E-01	c	1.9E-03	c	9.4E-03	c	1.5E-02	c		6.2E-05	
5.8E-01	H									1	0.1		Dimethylaniline HCl, 2,4-	21436-96-4	8.4E-01	c	3.0E+00	c					1.2E-01	c		6.6E-05	
2.0E-01	P			2.0E-03	X					1	0.1		Dimethylaniline, 2,4-	95-68-1	2.4E+00	c*	8.6E+00	c					3.4E-01	c		1.9E-04	
				2.0E-03	I			V		1		8.3E+02	Dimethylaniline, N,N-	121-69-7	1.6E+02	n	2.0E+03	ns					7.3E+01	n		2.6E-02	
1.1E+01	P									1	0.1		Dimethylbenzidine, 3,3'-	119-93-7	4.4E-02	c	1.6E-01	c					6.1E-03	c		4.0E-05	
				1.0E-01	P	3.0E-02	I			1	0.1		Dimethylformamide	68-12-2	6.1E+03	n	6.2E+04	n	3.1E+01	n	1.3E+02	n	3.7E+03	n		7.4E-01	
				1.0E-04	X	2.0E-06	X			1	0.1		Dimethylhydrazine, 1,1-	57-14-7	6.1E+00	n	6.1E+01	n	2.1E-03	n	8.8E-03	n	3.7E+00	n		8.2E-04	
5.5E+02	C	1.6E-01	C							1	0.1		Dimethylhydrazine, 1,2-	540-73-8	8.8E-04	c	3.1E-03	c	1.5E-05	c	7.7E-05	c	1.2E-04	c		2.8E-08	
				2.0E-02	I					1	0.1		Dimethylphenol, 2,4-	105-67-9	1.2E+03	n	1.2E+04	n					7.3E+02	n		8.6E-01	
				6.0E-04	I					1	0.1		Dimethylphenol, 2,6-	576-26-1	3.7E+01	n	3.7E+02	n					2.2E+01	n		2.6E-02	
				1.0E-03	I					1	0.1		Dimethylphenol, 3,4-	95-65-8	6.1E+01	n	6.2E+02	n					3.7E+01	n		4.3E-02	
				1.0E-01	I			V		1		5.5E+00	Dimethylterephthalate	120-61-6	7.8E+03	ns	1.0E+05	nms					3.7E+03	n		9.6E-01	
4.5E-02	C	1.3E-05	C							1	0.1		Dimethylvinylchloride	513-37-1	1.1E+01	c	3.8E+01	c	1.9E-01	c	9.4E-01	c	1.5E+00	c		9.2E-04	
				8.0E-05	X					1	0.1		Dinitro-o-cresol, 4,6-	534-52-1	4.9E+00	n	4.9E+01	n					2.9E+00	n		5.0E-03	
				2.0E-03	I					1	0.1		Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	1.2E+02	n	1.2E+03	n					7.3E+01	n		2.4E+00	

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Toxicity and Chemical-specific Information														Contaminant		Screening Levels												Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
				1.0E-04	P					1	0.1		Dinitrobenzene, 1,2-	528-29-0	6.1E+00	n	6.2E+01	n					3.7E+00	n		3.3E-03	
				1.0E-04	I					1	0.1		Dinitrobenzene, 1,3-	99-65-0	6.1E+00	n	6.2E+01	n					3.7E+00	n		3.3E-03	
				1.0E-04	P					1	0.1		Dinitrobenzene, 1,4-	100-25-4	6.1E+00	n	6.2E+01	n					3.7E+00	n		3.3E-03	
				2.0E-03	I					1	0.1		Dinitrophenol, 2,4-	51-28-5	1.2E+02	n	1.2E+03	n					7.3E+01	n		8.2E-02	
6.8E-01	I									1	0.1		Dinitrotoluene Mixture, 2,4/2,6-	25321-14-6	7.2E-01	c	2.5E+00	c					9.9E-02	c		1.4E-04	
3.1E-01	C	8.9E-05	C	2.0E-03	I					1	0.102		Dinitrotoluene, 2,4-	121-14-2	1.6E+00	c*	5.5E+00	c	2.7E-02	c	1.4E-01	c	2.2E-01	c		2.9E-04	
				1.0E-03	P					1	0.099		Dinitrotoluene, 2,6-	606-20-2	6.1E+01	n	6.2E+02	n					3.7E+01	n		5.0E-02	
				2.0E-03	S					1	0.006		Dinitrotoluene, 2-Amino-4,6-	35572-78-2	1.5E+02	n	2.0E+03	n					7.3E+01	n		5.6E-02	
				2.0E-03	S					1	0.009		Dinitrotoluene, 4-Amino-2,6-	19406-51-0	1.5E+02	n	1.9E+03	n					7.3E+01	n		5.6E-02	
				1.0E-03	I					1	0.1		Dinoseb	88-85-7	6.1E+01	n	6.2E+02	n					3.7E+01	n	7.0E+00	3.2E-01	6.2E-02
1.0E-01	I	7.7E-06	C	3.0E-02	I	3.0E+00	C			1	0.1		Dioxane, 1,4-	123-91-1	4.9E+00	c	1.7E+01	c	3.2E-01	c	1.6E+00	c	6.7E-01	c		1.4E-04	
													Dioxins															
6.2E+03	I	1.3E+00	I							1	0.03		~Hexachlorodibenzo-p-dioxin, Mixture	NA	9.4E-05	c	3.9E-04	c	1.9E-06	c	9.4E-06	c	1.1E-05	c		1.5E-05	
1.3E+05	C	3.8E+01	C	1.0E-09	A	4.0E-08	C			1	0.03		~TCDD, 2,3,7,8-	1746-01-6	4.5E-06	c*	1.8E-05	c*	6.4E-08	c	3.2E-07	c	5.2E-07	c*	3.0E-05	2.6E-07	1.5E-05
				3.0E-02	I					1	0.1		Diphenamid	957-51-7	1.8E+03	n	1.8E+04	n					1.1E+03	n		1.1E+01	
				8.0E-04	X					1	0.1		Diphenyl Sulfone	127-63-9	4.9E+01	n	4.9E+02	n					2.9E+01	n		7.1E-02	
				2.5E-02	I					1	0.1		Diphenylamine	122-39-4	1.5E+03	n	1.5E+04	n					9.1E+02	n		1.7E+00	
8.0E-01	I	2.2E-04	I							1	0.1		Diphenylhydrazine, 1,2-	122-66-7	6.1E-01	c	2.2E+00	c	1.1E-02	c	5.6E-02	c	8.4E-02	c		2.7E-04	
				2.2E-03	I					1	0.1		Diquat	85-00-7	1.3E+02	n	1.4E+03	n					8.0E+01	n	2.0E+01	1.5E+00	3.7E-01
7.4E+00	C	2.1E-03	C							1	0.1		Direct Black 38	1937-37-7	6.6E-02	c	2.3E-01	c	1.2E-03	c	5.8E-03	c	9.1E-03	c		4.4E+00	
7.4E+00	C	2.1E-03	C							1	0.1		Direct Blue 6	2602-46-2	6.6E-02	c	2.3E-01	c	1.2E-03	c	5.8E-03	c	9.1E-03	c		1.4E+01	
6.7E+00	C	1.9E-03	C							1	0.1		Direct Brown 95	16071-86-6	7.3E-02	c	2.6E-01	c	1.3E-03	c	6.5E-03	c	1.0E-02	c			
				4.0E-05	I					1	0.1		Disulfoton	298-04-4	2.4E+00	n	2.5E+01	n					1.5E+00	n		2.7E-03	
				1.0E-02	I					1	0.1		Dithiane, 1,4-	505-29-3	6.1E+02	n	6.2E+03	n					3.7E+02	n		1.8E-01	
				2.0E-03	I					1	0.1		Diuron	330-54-1	1.2E+02	n	1.2E+03	n					7.3E+01	n		3.1E-02	
				4.0E-03	I					1	0.1		Dodine	2439-10-3	2.4E+02	n	2.5E+03	n					1.5E+02	n		7.5E-01	
				2.5E-02	I			V		1		4.1E+02	EPTC	759-94-4	2.0E+03	ns	2.6E+04	ns					9.1E+02	n		4.8E-01	
				6.0E-03	I					1	0.1		Endosulfan	115-29-7	3.7E+02	n	3.7E+03	n					2.2E+02	n		3.0E+00	
				2.0E-02	I					1	0.1		Endothall	145-73-3	1.2E+03	n	1.2E+04	n					7.3E+02	n	1.0E+02	1.7E-01	2.4E-02
				3.0E-04	I					1	0.1		Endrin	72-20-8	1.8E+01	n	1.8E+02	n					1.1E+01	n	2.0E+00	4.4E-01	8.1E-02
9.9E-03	I	1.2E-06	I	6.0E-03	P	1.0E-03	I	V		1		1.1E+04	Epichlorohydrin	106-89-8	2.0E+01	n	8.8E+01	n	1.0E+00	n	4.4E+00	n	2.1E+00	n		4.5E-04	
						2.0E-02	I	V		1		1.5E+04	Epoxybutane, 1,2-	106-88-7	1.7E+02	n	7.2E+02	n	2.1E+01	n	8.8E+01	n	4.2E+01	n		9.2E-03	
				5.0E-03	I					1	0.1		Ethephon	16672-87-0	3.1E+02	n	3.1E+03	n					1.8E+02	n		3.8E-02	
				5.0E-04	I					1	0.1		Ethion	563-12-2	3.1E+01	n	3.1E+02	n					1.8E+01	n		3.6E-02	
				1.0E-01	P	6.0E-02	P			1	0.1		Ethoxyethanol Acetate, 2-	111-15-9	6.1E+03	n	6.2E+04	n	6.3E+01	n	2.6E+02	n	3.7E+03	n		7.6E-01	
				4.0E-01	H	2.0E-01	I			1	0.1		Ethoxyethanol, 2-	110-80-5	2.4E+04	n	2.5E+05	nm	2.1E+02	n	8.8E+02	n	1.5E+04	n		2.9E+00	
				9.0E-01	I			V		1		1.1E+04	Ethyl Acetate	141-78-6	7.0E+04	ns	9.2E+05	nms					3.3E+04	n		7.0E+00	
4.8E-02	H							V		1		2.5E+03	Ethyl Acrylate	140-88-5	1.3E+01	c	6.0E+01	c					1.4E+00	c		3.1E-04	
						1.0E+01	I	V		1		2.1E+03	Ethyl Chloride	75-00-3	1.5E+04	ns	6.1E+04	ns	1.0E+04	n	4.4E+04	n	2.1E+04	n		5.9E+00	
				2.0E-01	I			V		1		1.0E+04	Ethyl Ether	60-29-7	1.6E+04	ns	2.0E+05	nms					7.3E+03	n		1.6E+00	
				9.0E-02	H	3.0E-01	P	V		1		1.1E+03	Ethyl Methacrylate	97-63-2	1.5E+03	ns	7.5E+03	ns	3.1E+02	n	1.3E+03	n	5.3E+02	n		1.2E-01	
				1.0E-05	I					1	0.1		Ethyl-p-nitrophenyl Phosphonate	2104-64-5	6.1E-01	n	6.2E+00	n					3.7E-01	n		1.1E-02	
1.1E-02	C	2.5E-06	C	1.0E-01	I	1.0E+00	I	V		1		4.8E+02	Ethylbenzene	100-41-4	5.4E+00	c	2.7E+01	c	9.7E-01	c	4.9E+00	c	1.5E+00	c	7.0E+02	1.7E-03	7.8E-01
				3.0E-02	P					1	0.1		Ethylene Cyanohydrin	109-78-4	1.8E+03	n	1.8E+04	n					1.1E+03	n		2.2E-01	
				9.0E-02	P					1	0.1		Ethylene Diamine	107-15-3	5.5E+03	n	5.5E+04	n					3.3E+03	n		7.5E-01	
				2.0E+00	I	4.0E-01	C			1	0.1		Ethylene Glycol	107-21-1	1.2E+05	nm	1.2E+06	nm	4.2E+02	n	1.8E+03	n	7.3E+04	n		1.5E+01	
				1.0E-01	I	1.6E+00	I			1	0.1		Ethylene Glycol Monobutyl Ether	111-76-2	6.1E+03	n	6.2E+04	n	1.7E+03	n	7.0E+03	n	3.7E+03	n		7.5E-01	
3.1E-01	C	8.8E-05	C			3.0E-02	C	V		1		1.2E+05	Ethylene Oxide	75-21-8	1.7E-01	c	8.3E-01	c	2.8E-02	c	1.4E-01	c	4.4E-02	c		9.1E-06	
4.5E-02	C	1.3E-05	C	8.0E-05	I					1	0.1		Ethylene Thiourea	96-45-7	4.9E+00	n	3.8E+01	c**	1.9E-01	c	9.4E-01	c	1.5E+00	c**		3.4E-04	
6.5E+01	C	1.9E-02	C							1	0.1		Ethyleneimine	151-56-4	7.5E-03	c	2.7E-02	c	1.3E-04	c	6.5E-04	c	1.0E-03	c		2.3E-07	
				3.0E+00	I					1	0.1		Ethylphthalyl Ethyl Glycolate	84-72-0	1.8E+05	nm	1.8E+06	nm					1.1E+05	n		2.5E+02	
				8.0E-03	I					1	0.1		Express	101200-48-0	4.9E+02	n	4.9E+03	n					2.9E+02	n		1.1E-01	
				2.5E-04	I					1	0.1		Fenamiphos	22224-92-6	1.5E+01	n	1.5E+02	n					9.1E+00	n		9.1E-03	
				2.5E-02	I					1	0.1		Fenpropathrin	39515-41-8	1.5E+03	n	1.5E+04	n					9.1E+02	n		4.1E+01	
				1.3E-02	I					1	0.1		Fluometuron	2164-17-2	7.9E+02	n	8.0E+03	n					4.7E+02	n		3.7E-01	
				4.0E-02	C	1.3E-02	C			1			Fluoride	16984-48-8	3.1E+03	n	4.1E+04	n	1.4E+01	n	5.7E+01	n	1.5E+03	n		2.2E+02	
				6.0E-02	I	1.3E-02	C			1			Fluorine (Soluble Fluoride)	7782-41-4	4.7E+03	n	6.1E+04	n	1.4E+01	n	5.7E+01	n	2.2E+03	n	4.0E+03	3.3E+02	6.0E+02
				8.0E-02	I					1	0.1		Fluridone	59756-60-4	4.9E+03	n	4.9E+04	n					2.9E+03	n		3.3E+02	
				2.0E-02	I					1	0.1		Flurprimidol	56425-91-3	1.2E+03	n	1.2E+04	n					7.3E+02	n		3.3E+00	
				6.0E-02	I					1	0.1		Flutolanil	66332-96-5	3.7E+03	n	3.7E+04	n					2.2E+03	n		1.2E+01	
				1.0E-02	I					1	0.1		Fluvalinate	69409-94-5	6.1E+02	n	6.2E+03	n					3.7E+02	n		5.3E+02	
3.5E-03	I			1.0E-01	I					1	0.1		Folpet	133-07-3	1.4E+02	c*	4.9E+02	c					1.9E+01	c		4.5E-03	
1.9E-01	I									1	0.1		Fomesafen	72178-02-0	2.6E+00	c	9.1E+00	c					3.5E-01	c		1.2E-03	
				2.0E-03	I					1	0.1		Fonofos	944-22-9	1.2E+02	n	1.2E+03	n					7.3E+01	n		1.4E-01	
		1.3E-05	I	2.0E-01	I	9.8E-03	A			1	0.1		Formaldehyde	50-00-0	1.2E+04	n	1.2E+05	nm	1.9E-01	c*	9.4E-01	c*	7.3E+03	n		1.5E+00	

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Toxicity and Chemical-specific Information												Contaminant		Screening Levels										Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
				9.0E-01	P	3.0E-04	X			1	0.1		Formic Acid	64-18-6	4.9E+04	n	4.2E+05	nm	3.1E-01	n	1.3E+00	n	3.3E+04	n		6.6E+00	
				3.0E+00	I					1	0.1		Fosetyl-AL	39148-24-8	1.8E+05	nm	1.8E+06	nm					1.1E+05	n			
													Furans														
				1.0E-03	X			V		1		1.7E+02	~Dibenzofuran	132-64-9	7.8E+01	n	1.0E+03	ns					3.7E+01	n		6.8E-01	
				1.0E-03	I			V		1		6.2E+03	~Furan	110-00-9	7.8E+01	n	1.0E+03	n					3.7E+01	n		1.4E-02	
3.8E+00	H									1	0.1		Furazolidone	67-45-8	1.3E-01	c	4.5E-01	c					1.8E-02	c		3.4E-05	
				3.0E-03	I	5.0E-02	H			1	0.1		Furfural	98-01-1	1.8E+02	n	1.8E+03	n	5.2E+01	n	2.2E+02	n	1.1E+02	n		2.3E-02	
1.5E+00	C	4.3E-04	C							1	0.1		Furium	531-82-8	3.2E-01	c	1.1E+00	c	5.7E-03	c	2.9E-02	c	4.5E-02	c		6.1E-05	
3.0E-02	I	8.6E-06	C							1	0.1		Furmecyclox	60568-05-0	1.6E+01	c	5.7E+01	c	2.8E-01	c	1.4E+00	c	2.2E+00	c		2.4E-03	
				4.0E-04	I					1	0.1		Glufosinate, Ammonium	77182-82-2	2.4E+01	n	2.5E+02	n					1.5E+01	n		3.2E-03	
						8.0E-05	C			1	0.1		Glutaraldehyde	111-30-8	1.1E+05	nm	4.8E+05	nm	8.3E-02	n	3.5E-01	n					
				4.0E-04	I	1.0E-03	H			1	0.1		Glycidyl	765-34-4	2.4E+01	n	2.5E+02	n	1.0E+00	n	4.4E+00	n	1.5E+01	n		2.9E-03	
				1.0E-01	I					1	0.1		Glyphosate	1071-83-6	6.1E+03	n	6.2E+04	n					3.7E+03	n	7.0E+02	7.4E-01	1.4E-01
				3.0E-03	I					1	0.1		Goal	42874-03-3	1.8E+02	n	1.8E+03	n					1.1E+02	n		8.8E+00	
				3.0E-03	A	1.0E-02	A			1	0.1		Guthion	86-50-0	1.8E+02	n	1.8E+03	n	1.0E+01	n	4.4E+01	n	1.1E+02	n		3.3E-02	
				5.0E-05	I					1	0.1		Haloxyfop, Methyl	69806-40-2	3.1E+00	n	3.1E+01	n					1.8E+00	n		2.0E-02	
				1.3E-02	I					1	0.1		Harmony	79277-27-3	7.9E+02	n	8.0E+03	n					4.7E+02	n		1.4E-01	
4.5E+00	I	1.3E-03	I	5.0E-04	I					1	0.1		Heptachlor	76-44-8	1.1E-01	c	3.8E-01	c	1.9E-03	c	9.4E-03	c	1.5E-02	c	4.0E-01	1.2E-03	3.3E-02
9.1E+00	I	2.6E-03	I	1.3E-05	I					1	0.1		Heptachlor Epoxide	1024-57-3	5.3E-02	c*	1.9E-01	c*	9.4E-04	c	4.7E-03	c	7.4E-03	c*	2.0E-01	1.5E-04	4.1E-03
				2.0E-03	I					1	0.1		Hexabromobenzene	87-82-1	1.2E+02	n	1.2E+03	n					7.3E+01	n		4.2E-01	
				2.0E-04	I					1	0.1		Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	1.2E+01	n	1.2E+02	n					7.3E+00	n			
1.6E+00	I	4.6E-04	I	8.0E-04	I					1	0.1		Hexachlorobenzene	118-74-1	3.0E-01	c	1.1E+00	c	5.3E-03	c	2.7E-02	c	4.2E-02	c	1.0E+00	5.3E-04	1.3E-02
7.8E-02	I	2.2E-05	I	1.0E-03	P					1	0.1		Hexachlorobutadiene	87-68-3	6.2E+00	c**	2.2E+01	c*	1.1E-01	c	5.6E-01	c	8.6E-01	c*		1.7E-03	
6.3E+00	I	1.8E-03	I	8.0E-03	A					1	0.1		Hexachlorocyclohexane, Alpha-	319-84-6	7.7E-02	c	2.7E-01	c	1.4E-03	c	6.8E-03	c	1.1E-02	c		6.2E-05	
1.8E+00	I	5.3E-04	I							1	0.1		Hexachlorocyclohexane, Beta-	319-85-7	2.7E-01	c	9.6E-01	c	4.6E-03	c	2.3E-02	c	3.7E-02	c		2.2E-04	
1.1E+00	C	3.1E-04	C	3.0E-04	I					1	0.04		Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	5.2E-01	c*	2.1E+00	c	7.8E-03	c	4.0E-02	c	6.1E-02	c	2.0E-01	3.6E-04	1.2E-03
1.8E+00	I	5.1E-04	I							1	0.1		Hexachlorocyclohexane, Technical	608-73-1	2.7E-01	c	9.6E-01	c	4.8E-03	c	2.4E-02	c	3.7E-02	c		2.2E-04	
				6.0E-03	I	2.0E-04	I			1	0.1		Hexachlorocyclopentadiene	77-47-4	3.7E+02	n	3.7E+03	n	2.1E-01	n	8.8E-01	n	2.2E+02	n	5.0E+01	6.8E-01	1.6E-01
1.4E-02	I	4.0E-06	I	1.0E-03	I					1	0.1		Hexachloroethane	67-72-1	3.5E+01	c**	1.2E+02	c**	6.1E-01	c	3.1E+00	c	4.8E+00	c**		2.9E-03	
				3.0E-04	I					1	0.1		Hexachlorophene	70-30-4	1.8E+01	n	1.8E+02	n					1.1E+01	n		1.5E+01	
1.1E-01	I			3.0E-03	I					1	0.015		Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	5.6E+00	c*	2.4E+01	c					6.1E-01	c		2.3E-04	
						1.0E-05	I	V		1		5.2E+03	Hexamethylene Diisocyanate, 1,6-	822-06-0	3.4E+00	n	1.4E+01	n	1.0E-02	n	4.4E-02	n	2.1E-02	n		2.1E-04	
				6.0E-02	H	7.0E-01	I	V		1		1.4E+02	Hexane, N-	110-54-3	5.7E+02	ns	2.6E+03	ns	7.3E+02	n	3.1E+03	n	8.8E+02	n		6.2E+00	
				2.0E+00	P					1	0.1		Hexanedioic Acid	124-04-9	1.2E+05	nm	1.2E+06	nm					7.3E+04	n		1.8E+01	
				5.0E-03	I	3.0E-02	I	V		1		3.3E+03	Hexanone, 2-	591-78-6	2.1E+02	n	1.4E+03	n	3.1E+01	n	1.3E+02	n	4.7E+01	n		1.1E-02	
				3.3E-02	I					1	0.1		Hexazinone	51235-04-2	2.0E+03	n	2.0E+04	n					1.2E+03	n		5.5E-01	
3.0E+00	I	4.9E-03	I			3.0E-05	P			1			Hydrazine	302-01-2	2.1E-01	c	9.5E-01	c	5.0E-04	c*	2.5E-03	c*	2.2E-02	c			
3.0E+00	I	4.9E-03	I							1			Hydrazine Sulfate	10034-93-2	2.1E-01	c	9.5E-01	c	5.0E-04	c	2.5E-03	c	2.2E-02	c			
						2.0E-02	I			1			Hydrogen Chloride	7647-01-0	2.8E+07	nm	1.2E+08	nm	2.1E+01	n	8.8E+01	n					
				4.0E-02	C	1.4E-02	C			1			Hydrogen Fluoride	7664-39-3	3.1E+03	n	4.1E+04	n	1.5E+01	n	6.1E+01	n	1.5E+03	n			
						2.0E-03	I			1			Hydrogen Sulfide	7783-06-4	2.8E+06	nm	1.2E+07	nm	2.1E+00	n	8.8E+00	n					
6.0E-02	P			4.0E-02	P					1	0.1		Hydroquinone	123-31-9	8.1E+00	c	2.9E+01	c					1.1E+00	c		7.6E-04	
				1.3E-02	I					1	0.1		Imazalil	35554-44-0	7.9E+02	n	8.0E+03	n					4.7E+02	n		8.2E+00	
				2.5E-01	I					1	0.1		Imazaquin	81335-37-7	1.5E+04	n	1.5E+05	nm					9.1E+03	n		4.5E+01	
				1.0E-02	A					1			Iodine	7553-56-2	7.8E+02	n	1.0E+04	n					3.7E+02	n		2.2E+01	
				4.0E-02	I					1	0.1		Iprodione	36734-19-7	2.4E+03	n	2.5E+04	n					1.5E+03	n		4.5E-01	
				7.0E-01	P					1			Iron	7439-89-6	5.5E+04	n	7.2E+05	nm					2.6E+04	n		6.4E+02	
				3.0E-01	I			V		1		1.0E+04	Isobutyl Alcohol	78-83-1	2.3E+04	ns	3.1E+05	nms					1.1E+04	n		2.3E+00	
9.5E-04	I			2.0E-01	I	2.0E+00	C			1	0.1		Isophorone	78-59-1	5.1E+02	c*	1.8E+03	c*	2.1E+03	n	8.8E+03	n	7.1E+01	c		2.3E-02	
				1.5E-02	I					1	0.1		Isopropalin	33820-53-0	9.2E+02	n	9.2E+03	n					5.5E+02	n		1.3E+01	
						7.0E+00	C			1	0.1		Isopropanol	67-63-0	9.9E+09	nm	4.2E+10	nm	7.3E+03	n	3.1E+04	n					
				1.0E-01	I					1	0.1		Isopropyl Methyl Phosphonic Acid	1832-54-8	6.1E+03	n	6.2E+04	n					3.7E+03	n		7.9E-01	
				5.0E-02	I					1	0.1		Isoxaben	82558-50-7	3.1E+03	n	3.1E+04	n					1.8E+03	n		5.0E+00	
						3.0E-01	A	V		1			JP-7	NA	4.3E+08	nm	1.8E+09	nm	3.1E+02	n	1.3E+03	n	6.3E+02	n			
				7.5E-02	I					1	0.1		Kerb	23950-58-5	4.6E+03	n	4.6E+04	n					2.7E+03	n		2.8E+00	
				2.0E-03	I					1	0.1		Lactofen	77501-63-4	1.2E+02	n	1.2E+03	n					7.3E+01	n		3.4E+00	
													Lead Compounds														
2.8E-01	C	8.0E-05	C							1	0.1		~Lead acetate	301-04-2	1.7E+00	c	6.2E+00	c	3.0E-02	c	1.5E-01	c	2.4E-01	c			
										1			~Lead and Compounds	7439-92-1	4.0E+02	n	8.0E+02	n							1.5E+01		1.4E+01
3.8E-02	C	1.1E-05	C							1	0.1		~Lead subacetate	1335-32-6	1.3E+01	c	4.5E+01	c	2.2E-01	c	1.1E+00	c	1.8E+00	c			
				1.0E-07	I					1	0.1		~Tetraethyl Lead	78-00-2	6.1E-03	n	6.2E-02	n					3.7E-03	n		1.3E-05	
				2.0E-03	I					1	0.1		Linuron	330-55-2	1.2E+02	n	1.2E+03	n					7.3E+01	n		6.4E-02	
				2.0E-03	P					1			Lithium	7439-93-2	1.6E+02	n	2.0E+03	n					7.3E+01	n		2.2E+01	
				2.0E-01	I					1	0.1		Londax	83055-99-6	1.2E+04	n	1.2E+05	nm					7.3E+03	n		1.9E+00	
				5.0E-04	I					1	0.1		MCPA	94-74-6	3.1E+01	n	3.1E+02	n					1.8E+01	n		4.7E-03	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; Y = New York; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information												Contaminant		Screening Levels												Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	voc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
				1.0E-02	I					1	0.1		MCPB	94-81-5	6.1E+02	n	6.2E+03	n					3.7E+02	n		1.4E-01	
				1.0E-03	I					1	0.1		MCPP	93-65-2	6.1E+01	n	6.2E+02	n					3.7E+01	n		1.1E-02	
				2.0E-02	I					1	0.1		Malathion	121-75-5	1.2E+03	n	1.2E+04	n					7.3E+02	n		1.9E-01	
				1.0E-01	I	7.0E-04	C			1	0.1		Maleic Anhydride	108-31-6	6.1E+03	n	6.1E+04	n	7.3E-01	n	3.1E+00	n	3.7E+03	n		7.4E-01	
				5.0E-01	I					1	0.1		Maleic Hydrazide	123-33-1	3.1E+04	n	3.1E+05	nm					1.8E+04	n		3.8E+00	
				1.0E-04	P					1	0.1		Malononitrile	109-77-3	6.1E+00	n	6.2E+01	n					3.7E+00	n		7.5E-04	
				3.0E-02	H					1	0.1		Mancozeb	8018-01-7	1.8E+03	n	1.8E+04	n					1.1E+03	n		1.5E+00	
				5.0E-03	I					1	0.1		Maneb	12427-38-2	3.1E+02	n	3.1E+03	n					1.8E+02	n		2.6E-01	
				1.4E-01	I	5.0E-05	I			1			Manganese (Diet)	7439-96-5													
				2.4E-02	S	5.0E-05	I			0.04			Manganese (Non-diet)	7439-96-5	1.8E+03	n	2.3E+04	n	5.2E-02	n	2.2E-01	n	8.8E+02	n		5.7E+01	
				9.0E-05	H					1	0.1		Mephosfolan	950-10-7	5.5E+00	n	5.5E+01	n					3.3E+00	n		4.8E-03	
				3.0E-02	I					1	0.1		Mepiquat Chloride	24307-26-4	1.8E+03	n	1.8E+04	n					1.1E+03	n		3.6E-01	
													Mercury Compounds															
				3.0E-04	I	3.0E-05	C			0.07			~Mercuric Chloride (and other Mercury salts)	7487-94-7	2.3E+01	n	3.1E+02	n	3.1E-02	n	1.3E-01	n	1.1E+01	n	2.0E+00		
						3.0E-04	I	V		1		3.1E+00	~Mercury (elemental)	7439-97-6	1.0E+01	ns	4.3E+01	ns	3.1E-01	n	1.3E+00	n	6.3E-01	n	2.0E+00	3.3E-02	1.0E-01
				1.0E-04	I					1			~Methyl Mercury	22967-92-6	7.8E+00	n	1.0E+02	n					3.7E+00	n			
				8.0E-05	I					1	0.1		~Phenylmercuric Acetate	62-38-4	4.9E+00	n	4.9E+01	n					2.9E+00	n		9.1E-04	
				3.0E-05	I					1	0.1		Merphos	150-50-5	1.8E+00	n	1.8E+01	n					1.1E+00	n		1.1E-01	
				3.0E-05	I					1	0.1		Merphos Oxide	78-48-8	1.8E+00	n	1.8E+01	n					1.1E+00	n		5.4E-03	
				6.0E-02	I					1	0.1		Metalaxyl	57837-19-1	3.7E+03	n	3.7E+04	n					2.2E+03	n		6.1E-01	
				1.0E-04	I	7.0E-04	H	V		1		4.6E+03	Methacrylonitrile	126-98-7	3.2E+00	n	1.8E+01	n	7.3E-01	n	3.1E+00	n	1.0E+00	n		2.4E-04	
				5.0E-05	I					1	0.1		Methamidophos	10265-92-6	3.1E+00	n	3.1E+01	n					1.8E+00	n		3.8E-04	
				5.0E-01	I	4.0E+00	C			1	0.1		Methanol	67-56-1	3.1E+04	n	3.1E+05	nm	4.2E+03	n	1.8E+04	n	1.8E+04	n		3.7E+00	
				1.0E-03	I					1	0.1		Methidathion	950-37-8	6.1E+01	n	6.2E+02	n					3.7E+01	n		8.9E-03	
				2.5E-02	I					1	0.1		Methomyl	16752-77-5	1.5E+03	n	1.5E+04	n					9.1E+02	n		2.0E-01	
4.9E-02	C	1.4E-05	C							1	0.1		Methoxy-5-nitroaniline, 2-	99-59-2	9.9E+00	c	3.5E+01	c	1.7E-01	c	8.8E-01	c	1.4E+00	c		4.7E-04	
				5.0E-03	I					1	0.1		Methoxychlor	72-43-5	3.1E+02	n	3.1E+03	n					1.8E+02	n	4.0E+01	9.9E+00	2.2E+00
				8.0E-03	P	1.0E-03	P			1	0.1		Methoxyethanol Acetate, 2-	110-49-6	4.9E+02	n	4.9E+03	n	1.0E+00	n	4.4E+00	n	2.9E+02	n		6.0E-02	
				5.0E-03	P	2.0E-02	I			1	0.1		Methoxyethanol, 2-	109-86-4	3.1E+02	n	3.1E+03	n	2.1E+01	n	8.8E+01	n	1.8E+02	n		3.7E-02	
				1.0E+00	X			V		1		2.9E+04	Methyl Acetate	79-20-9	7.8E+04	ns	1.0E+06	nms					3.7E+04	n		7.5E+00	
				3.0E-02	H			V		1		6.8E+03	Methyl Acrylate	96-33-3	2.3E+03	n	3.1E+04	ns					1.1E+03	n		2.3E-01	
				6.0E-01	I	5.0E+00	I	V		1		2.8E+04	Methyl Ethyl Ketone (2-Butanone)	78-93-3	2.8E+04	n	2.0E+05	nms	5.2E+03	n	2.2E+04	n	7.1E+03	n		1.5E+00	
		1.0E-03	X	1.0E-03	P	2.0E-05	X			1	0.1		Methyl Hydrazine	60-34-4	6.1E+01	n	6.1E+02	n	2.4E-03	c**	1.2E-02	c**	3.7E+01	n		8.3E-03	
				8.0E-02	H	3.0E+00	I	V		1		3.4E+03	Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	5.3E+03	ns	5.3E+04	ns	3.1E+03	n	1.3E+04	n	2.0E+03	n		4.5E-01	
						1.0E-03	C			1	0.1		Methyl Isocyanate	624-83-9	1.4E+06	nm	6.0E+06	nm	1.0E+00	n	4.4E+00	n					
				1.4E+00	I	7.0E-01	I	V		1		2.4E+03	Methyl Methacrylate	80-62-6	4.8E+03	ns	2.1E+04	ns	7.3E+02	n	3.1E+03	n	1.4E+03	n		3.1E-01	
				2.5E-04	I					1	0.1		Methyl Parathion	298-00-0	1.5E+01	n	1.5E+02	n					9.1E+00	n		1.5E-02	
				6.0E-02	X					1	0.1		Methyl Phosphonic Acid	993-13-5	3.7E+03	n	3.7E+04	n					2.2E+03	n		4.4E-01	
				6.0E-03	H	4.0E-02	H	V		1		3.8E+02	Methyl Styrene (Mixed Isomers)	25013-15-4	2.5E+02	n	1.6E+03	ns	4.2E+01	n	1.8E+02	n	6.0E+01	n		9.7E-02	
9.9E-02	C	2.8E-05	C							1	0.1		Methyl methanesulfonate	66-27-3	4.9E+00	c	1.7E+01	c	8.7E-02	c	4.4E-01	c	6.8E-01	c		1.4E-04	
1.8E-03	C	2.6E-07	C			3.0E+00	I	V		1		8.9E+03	Methyl tert-Butyl Ether (MTBE)	1634-04-4	4.3E+01	c	2.2E+02	c	9.4E+00	c	4.7E+01	c	1.2E+01	c		2.8E-03	
				2.0E-04	X					1	0.1		Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	1.2E+01	n	1.2E+02	n					7.3E+00	n			
9.0E-03	P			2.0E-02	X					1	0.1		Methyl-5-Nitroaniline, 2-	99-55-8	5.4E+01	c*	1.9E+02	c*					7.5E+00	c*		4.2E-03	
8.3E+00	C	2.4E-03	C							1	0.1		Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	5.9E-02	c	2.1E-01	c	1.0E-03	c	5.1E-03	c	8.1E-03	c		2.8E-06	
1.3E-01	C	3.7E-05	C							1	0.1		Methylaniline Hydrochloride, 2-	636-21-5	3.7E+00	c	1.3E+01	c	6.6E-02	c	3.3E-01	c	5.2E-01	c		2.2E-04	
				1.0E-02	A					1	0.1		Methylarsonic acid	124-58-3	6.1E+02	n	6.2E+03	n					3.7E+02	n			
				2.0E-04	X					1	0.1		Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7	1.2E+01	n	1.2E+02	n					7.3E+00	n			
				2.0E-04	X					1	0.1		Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	1.2E+01	n	1.2E+02	n					7.3E+00	n			
2.2E+01	C	6.3E-03	C						M	1	0.1		Methylcholanthrene, 3-	56-49-5	5.2E-03	c	7.8E-02	c	1.5E-04	c	1.9E-03	c	9.8E-04	c		1.9E-03	
7.5E-03	I	4.7E-07	I	6.0E-02	I	1.0E+00	A	V		1		3.3E+03	Methylene Chloride	75-09-2	1.1E+01	c	5.3E+01	c	5.2E+00	c	2.6E+01	c	4.8E+00	c	5.0E+00	1.2E-03	1.3E-03
1.0E-01	P	4.3E-04	C	2.0E-03	P				M	1	0.1		Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	1.2E+00	c	1.7E+01	c*	2.2E-03	c	2.9E-02	c	2.2E-01	c		2.5E-03	
4.6E-02	I	1.3E-05	C							1	0.1		Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	1.1E+01	c	3.7E+01	c	1.9E-01	c	9.4E-01	c	1.5E+00	c		8.1E-03	
1.6E+00	C	4.6E-04	C			2.0E-02	C			1	0.1		Methylenebisbenzenamine, 4,4'-	101-77-9	3.0E-01	c	1.1E+00	c	5.3E-03	c	2.7E-02	c	4.2E-02	c		1.9E-04	
						6.0E-04	I			1	0.1		Methylenediphenyl Diisocyanate	101-68-8	8.5E+05	nm	3.6E+06	nm	6.3E-01	n	2.6E+00	n					
				7.0E-02	H			V		1		5.0E+02	Methylstyrene, Alpha-	98-83-9	5.5E+03	ns	7.2E+04	ns					2.6E+03	n		4.1E+00	
				1.5E-01	I					1	0.1		Metolachlor	51218-45-2	9.2E+03	n	9.2E+04	n					5.5E+03	n		6.4E+00	
				2.5E-02	I					1	0.1		Metribuzin	21087-64-9	1.5E+03	n	1.5E+04	n					9.1E+02	n		2.8E-01	
				3.0E+00	P					1	0.1		Mineral oils	8012-95-1	1.8E+05	nm	1.8E+06	nm					1.1E+05	n		4.3E+03	
1.8E+01	C	5.1E-03	C	2.0E-04	I					1	0.1		Mirex	2385-85-5	2.7E-02	c	9.6E-02	c	4.8E-04	c	2.4E-03	c	3.7E-03	c		2.7E-03	
				2.0E-03	I					1	0.1		Molinate	2212-67-1	1.2E+02	n	1.2E+03	n					7.3E+01	n		4.1E-02	
				5.0E-03	I					1			Molybdenum	7439-98-7	3.9E+02	n	5.1E+03	n					1.8E+02	n		3.7E+00	
				1.0E-01	I					1			Monochloramine	10599-90-3	7.8E+03	n	1.0E+05	nm					3.7E+03	n			
				2.0E-03	P					1	0.1		Monomethylaniline	100-61-8	1.2E+02	n	1.2E+03	n					7.3E+01	n		2.7E-02	
				3.0E-04	X					1	0.1		N,N'-Diphenyl-1,4-benzenediamine	74-31-7	1.8E+01	n	1.8E+02	n					1.1E+01	n		1.1E+00	
				2.0E-03	I					1	0.1		Naled	300-76-5	1.2E+02	n	1.2E+03	n					7.3E+01	n		3.3E-02	

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Toxicity and Chemical-specific Information													Contaminant		Screening Levels												Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	voc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
				3.0E-02	X	1.0E-01	P	V		1			Naphtha, High Flash Aromatic (HFAN)	64724-95-6	2.3E+03	n	3.1E+04	n	1.0E+02	n	4.4E+02	n	1.8E+02	n			
1.8E+00	C	0.0E+00	C							1	0.1		Naphthylamine, 2-	91-59-8	2.7E-01	c	9.6E-01	c					3.7E-02	c		1.9E-04	
				1.0E-01	I					1	0.1		Napropamide	15299-99-7	6.1E+03	n	6.2E+04	n					3.7E+03	n		2.4E+01	
				5.0E-02	C	5.0E-05	C			0.04			Nickel Carbonyl	13463-39-3	3.7E+03	n	4.4E+04	n	5.2E-02	n	2.2E-01	n	1.8E+03	n			
				5.0E-02	C	1.0E-04	C			1			Nickel Oxide	1313-99-1	3.8E+03	n	4.7E+04	n	1.0E-01	n	4.4E-01	n	1.8E+03	n			
		2.4E-04	I	5.0E-02	C	5.0E-05	C			0.04			Nickel Refinery Dust	NA	3.7E+03	n	4.4E+04	n	1.0E-02	c**	5.1E-02	c**	1.8E+03	n		2.7E+02	
		2.6E-04	C	2.0E-02	I	9.0E-05	A			0.04			Nickel Soluble Salts	7440-02-0	1.5E+03	n	2.0E+04	n	9.4E-03	c*	4.7E-02	c**	7.3E+02	n		4.8E+01	
1.7E+00	C	4.8E-04	I	5.0E-02	C	5.0E-05	C			0.04			Nickel Subsulfide	12035-72-2	3.8E-01	c	1.7E+00	c	5.1E-03	c*	2.6E-02	c**	4.0E-02	c			
				1.6E+00	I					1			Nitrate	14797-55-8	1.3E+05	nm	1.6E+06	nm					5.8E+04	n	1.0E+04		
				1.0E-01	I					1			Nitrite	14797-65-0	7.8E+03	n	1.0E+05	nm					3.7E+03	n	1.0E+03		
				1.0E-02	X	5.0E-05	X			1	0.1		Nitroaniline, 2-	88-74-4	6.1E+02	n	6.0E+03	n	5.2E-02	n	2.2E-01	n	3.7E+02	n		1.5E-01	
2.0E-02	P			4.0E-03	P	6.0E-03	P			1	0.1		Nitroaniline, 4-	100-01-6	2.4E+01	c*	8.6E+01	c*	6.3E+00	n	2.6E+01	n	3.4E+00	c*		1.4E-03	
		4.0E-05	I	2.0E-03	I	9.0E-03	I	V		1		3.1E+03	Nitrobenzene	98-95-3	4.8E+00	c*	2.4E+01	c*	6.1E-02	c	3.1E-01	c	1.2E-01	c		7.9E-05	
				3.0E+03	P					1	0.1		Nitrocellulose	9004-70-0	1.8E+08	nm	1.8E+09	nm					1.1E+08	n		2.4E+04	
				7.0E-02	H					1	0.1		Nitrofurantoin	67-20-9	4.3E+03	n	4.3E+04	n					2.6E+03	n		1.1E+00	
1.3E+00	C	3.7E-04	C							1	0.1		Nitrofurazone	59-87-0	3.7E-01	c	1.3E+00	c	6.6E-03	c	3.3E-02	c	5.2E-02	c		4.7E-05	
1.7E-02	P			1.0E-04	P					1	0.1		Nitroglycerin	55-63-0	6.1E+00	n	6.2E+01	n					3.7E+00	n		1.6E-03	
				1.0E-01	I					1	0.1		Nitroguanidine	556-88-7	6.1E+03	n	6.2E+04	n					3.7E+03	n		8.8E-01	
		9.0E-06	P			2.0E-02	P	V		1		1.8E+04	Nitromethane	75-52-5	4.9E+00	c*	2.5E+01	c*	2.7E-01	c*	1.4E+00	c*	5.4E-01	c*		1.2E-04	
		2.7E-03	H			2.0E-02	I	V		1		4.9E+03	Nitropropane, 2-	79-46-9	1.3E-02	c	6.4E-02	c	9.0E-04	c	4.5E-03	c	1.8E-03	c		4.7E-07	
2.7E+01	C	7.7E-03	C						M	1	0.1		Nitroso-N-ethylurea, N-	759-73-9	4.3E-03	c	6.4E-02	c	1.2E-04	c	1.6E-03	c	8.0E-04	c		1.9E-07	
1.2E+02	C	3.4E-02	C						M	1	0.1		Nitroso-N-methylurea, N-	684-93-5	9.6E-04	c	1.4E-02	c	2.8E-05	c	3.6E-04	c	1.8E-04	c		4.0E-08	
5.4E+00	I	1.6E-03	I					V		1		7.1E+03	Nitroso-di-N-butylamine, N-	924-16-3	8.7E-02	c	4.0E-01	c	1.5E-03	c	7.7E-03	c	2.4E-03	c		5.0E-06	
7.0E+00	I	2.0E-03	C							1	0.1		Nitroso-di-N-propylamine, N-	621-64-7	6.9E-02	c	2.5E-01	c	1.2E-03	c	6.1E-03	c	9.6E-03	c		7.2E-06	
2.8E+00	I	8.0E-04	C							1	0.1		Nitrosodiethanolamine, N-	1116-54-7	1.7E-01	c	6.2E-01	c	3.0E-03	c	1.5E-02	c	2.4E-02	c		4.9E-06	
1.5E+02	I	4.3E-02	I						M	1	0.1		Nitrosodiethylamine, N-	55-18-5	7.7E-04	c	1.1E-02	c	2.2E-05	c	2.9E-04	c	1.4E-04	c		5.3E-08	
5.1E+01	I	1.4E-02	I	8.0E-06	P	4.0E-05	X		M	1	0.1		Nitrosodimethylamine, N-	62-75-9	2.3E-03	c	3.4E-02	c	6.9E-05	c	8.8E-04	c	4.2E-04	c		1.0E-07	
4.9E-03	I	2.6E-06	C							1	0.1		Nitrosodiphenylamine, N-	86-30-6	9.9E+01	c	3.5E+02	c	9.4E-01	c	4.7E+00	c	1.4E+01	c		7.5E-02	
2.2E+01	I	6.3E-03	C							1	0.1		Nitrosomethylethylamine, N-	10595-95-6	2.2E-02	c	7.8E-02	c	3.9E-04	c	1.9E-03	c	3.1E-03	c		8.8E-07	
6.7E+00	C	1.9E-03	C							1	0.1		Nitrosomorpholine [N-]	59-89-2	7.3E-02	c	2.6E-01	c	1.3E-03	c	6.5E-03	c	1.0E-02	c		2.5E-06	
9.4E+00	C	2.7E-03	C							1	0.1		Nitrosopiperidine [N-]	100-75-4	5.2E-02	c	1.8E-01	c	9.0E-04	c	4.5E-03	c	7.2E-03	c		3.8E-06	
2.1E+00	I	6.1E-04	I							1	0.1		Nitrosopyrrolidine, N-	930-55-2	2.3E-01	c	8.2E-01	c	4.0E-03	c	2.0E-02	c	3.2E-02	c		1.2E-05	
				1.0E-04	X					1	0.1		Nitrotoluene, m-	99-08-1	6.1E+00	n	6.2E+01	n					3.7E+00	n		3.4E-03	
2.2E-01	P			9.0E-04	P			V		1		1.5E+03	Nitrotoluene, o-	88-72-2	2.9E+00	c*	1.3E+01	c*					3.1E-01	c		2.9E-04	
1.6E-02	P			4.0E-03	P					1	0.1		Nitrotoluene, p-	99-99-0	3.0E+01	c**	1.1E+02	c*					4.2E+00	c*		3.9E-03	
				3.0E-04	X	2.0E-01	P	V		1		6.9E+00	Nonane, n-	111-84-2	2.1E+01	ns	2.3E+02	ns	2.1E+02	n	8.8E+02	n	1.1E+01	n		1.5E-01	
				4.0E-02	I					1	0.1		Norflurazon	27314-13-2	2.4E+03	n	2.5E+04	n					1.5E+03	n		9.4E+00	
				7.0E-04	I					1	0.1		Nustar	85509-19-9	4.3E+01	n	4.3E+02	n					2.6E+01	n		4.1E+00	
				3.0E-03	I					1	0.1		Octabromodiphenyl Ether	32536-52-0	1.8E+02	n	1.8E+03	n					1.1E+02	n		2.2E+01	
				5.0E-02	I					1	0.006		Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX)	2691-41-0	3.8E+03	n	4.9E+04	n					1.8E+03	n		2.3E+00	
				2.0E-03	H					1	0.1		Octamethylpyrophosphoramide	152-16-9	1.2E+02	n	1.2E+03	n					7.3E+01	n		1.8E-02	
				5.0E-02	I					1	0.1		Oryzalin	19044-88-3	3.1E+03	n	3.1E+04	n					1.8E+03	n		3.4E+00	
				5.0E-03	I					1	0.1		Oxadiazon	19666-30-9	3.1E+02	n	3.1E+03	n					1.8E+02	n		1.9E+00	
				2.5E-02	I					1	0.1		Oxamyl	23135-22-0	1.5E+03	n	1.5E+04	n					9.1E+02	n	2.0E+02	2.0E-01	4.4E-02
				1.3E-02	I					1	0.1		Paclobutrazol	76738-62-0	7.9E+02	n	8.0E+03	n					4.7E+02	n		9.7E-01	
				4.5E-03	I					1	0.1		Paraquat Dichloride	1910-42-5	2.7E+02	n	2.8E+03	n					1.6E+02	n		2.3E+00	
				6.0E-03	H					1	0.1		Parathion	56-38-2	3.7E+02	n	3.7E+03	n					2.2E+02	n		1.1E+00	
				5.0E-02	H					1	0.1		Pebulate	1114-71-2	3.1E+03	n	3.1E+04	n					1.8E+03	n		1.5E+00	
				4.0E-02	I					1	0.1		Pendimethalin	40487-42-1	2.4E+03	n	2.5E+04	n					1.5E+03	n		1.7E+01	
				2.0E-03	I					1	0.1		Pentabromodiphenyl Ether	32534-81-9	1.2E+02	n	1.2E+03	n					7.3E+01	n		3.2E+00	
				1.0E-04	I					1	0.1		Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	6.1E+00	n	6.2E+01	n					3.7E+00	n		1.6E-01	
				8.0E-04	I					1	0.1		Pentachlorobenzene	608-93-5	4.9E+01	n	4.9E+02	n					2.9E+01	n		2.2E-01	
9.0E-02	P									1	0.1		Pentachloroethane	76-01-7	5.4E+00	c	1.9E+01	c					7.5E-01	c		3.6E-04	
2.6E-01	H			3.0E-03	I					1	0.1		Pentachloronitrobenzene	82-68-8	1.9E+00	c*	6.6E+00	c					2.6E-01	c		3.2E-03	
4.0E-01	I	5.1E-06	C	5.0E-03	I					1	0.25		Pentachlorophenol	87-86-5	8.9E-01	c	2.7E+00	c	4.8E-01	c	2.4E+00	c	1.7E-01	c	1.0E+00	1.7E-03	1.0E-02
4.0E-03	X			2.0E-03	P					1	0.1		Pentaerythritol tetranitrate (PETN)	78-11-5	1.2E+02	c**	4.3E+02	c**					1.7E+01	c**		2.5E-02	
						1.0E+00	P	V		1		3.9E+02	Pentane, n-	109-66-0	8.7E+02	ns	3.7E+03	ns	1.0E+03	n	4.4E+03	n	2.1E+03	n		1.0E+01	
													Perchlorates															
				7.0E-04	I					1			~Ammonium Perchlorate	7790-98-9	5.5E+01	n	7.2E+02	n					2.6E+01	n			
				7.0E-04	I					1			~Lithium Perchlorate	7791-03-9	5.5E+01	n	7.2E+02	n					2.6E+01	n			
				7.0E-04	I					1			~Perchlorate and Perchlorate Salts	14797-73-0	5.5E+01	n	7.2E+02	n					2.6E+01	n	1.5E+01(F)		
				7.0E-04	I					1			~Potassium Perchlorate	7778-74-7	5.5E+01	n	7.2E+02	n					2.6E+01	n			
				7.0E-04	I					1			~Sodium Perchlorate	7601-89-0	5.5E+01	n	7.2E+02	n					2.6E+01	n			
				5.0E-02	I					1	0.1		Permethrin	52645-53-1	3.1E+03	n	3.1E+04	n					1.8E+03	n		4.3E+02	
2.2E-03	C	6.3E-07	C							1	0.1		Phenacetin	62-44-2	2.2E+02	c	7.8E+02	c	3.9E+00	c	1.9E+01	c	3.1E+01	c		8.6E-03	

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Toxicity and Chemical-specific Information													Contaminant		Screening Levels												Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	voc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
				2.5E-01	I					1	0.1		Phenmedipham	13684-63-4	1.5E+04	n	1.5E+05	nm					9.1E+03	n		4.9E+01	
				3.0E-01	I	2.0E-01	C			1	0.1		Phenol	108-95-2	1.8E+04	n	1.8E+05	nm	2.1E+02	n	8.8E+02	n	1.1E+04	n		6.3E+00	
				5.0E-04	X					1	0.1		Phenothiazine	92-84-2	3.1E+01	n	3.1E+02	n					1.8E+01	n			
				6.0E-03	I					1	0.1		Phenylenediamine, m-	108-45-2	3.7E+02	n	3.7E+03	n					2.2E+02	n		5.9E-02	
4.7E-02	H									1	0.1		Phenylenediamine, o-	95-54-5	1.0E+01	c	3.7E+01	c					1.4E+00	c		3.8E-04	
				1.9E-01	H					1	0.1		Phenylenediamine, p-	106-50-3	1.2E+04	n	1.2E+05	nm					6.9E+03	n		1.9E+00	
1.9E-03	H									1	0.1		Phenylphenol, 2-	90-43-7	2.5E+02	c	8.9E+02	c					3.5E+01	c		4.7E-01	
				2.0E-04	H					1	0.1		Phorate	298-02-2	1.2E+01	n	1.2E+02	n					7.3E+00	n		8.2E-03	
						3.0E-04	I	V		1		1.6E+03	Phosgene	75-44-5	3.3E-01	n	1.4E+00	n	3.1E-01	n	1.3E+00	n					
				2.0E-02	I					1	0.1		Phosmet	732-11-6	1.2E+03	n	1.2E+04	n					7.3E+02	n		1.6E-01	
													Phosphates, Inorganic															
				4.9E+01	P					1			~Aluminum metaphosphate	13776-88-0	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Ammonium polyphosphate	68333-79-9	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Calcium pyrophosphate	7790-76-3	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Diammonium phosphate	7783-28-0	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Dicalcium phosphate	7757-93-9	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Dimagnesium phosphate	7782-75-4	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Dipotassium phosphate	7758-11-4	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Disodium phosphate	7558-79-4	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Monoaluminum phosphate	13530-50-2	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Monoammonium phosphate	7722-76-1	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Monocalcium phosphate	7758-23-8	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Monomagnesium phosphate	7757-86-0	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Monopotassium phosphate	7778-77-0	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Monosodium phosphate	7558-80-7	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Polyphosphoric acid	8017-16-1	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Potassium tripolyphosphate	13845-36-8	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Sodium acid pyrophosphate	7758-16-9	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Sodium aluminum phosphate (acidic)	7785-88-8	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Sodium aluminum phosphate (anhydrous)	10279-59-1	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Sodium aluminum phosphate (tetrahydrate)	10305-76-7	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Sodium hexametaphosphate	10124-56-8	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Sodium polyphosphate	68915-31-1	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Sodium trimetaphosphate	7785-84-4	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Sodium tripolyphosphate	7758-29-4	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Tetrapotassium phosphate	7320-34-5	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Tetrasodium pyrophosphate	7722-88-5	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Tricalcium phosphate	7758-87-4	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Trimagnesium phosphate	7757-87-1	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Tripotassium phosphate	7778-53-2	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				4.9E+01	P					1			~Trisodium phosphate	7601-54-9	3.8E+06	nm	5.0E+07	nm					1.8E+06	n			
				3.0E-04	I	3.0E-04	I			1			Phosphine	7803-51-2	2.3E+01	n	3.1E+02	n	3.1E-01	n	1.3E+00	n	1.1E+01	n			
				4.9E+01	P	1.0E-02	I			1			Phosphoric Acid	7664-38-2	3.0E+06	nm	2.7E+07	nm	1.0E+01	n	4.4E+01	n	1.8E+06	n			
				2.0E-05	I					1			Phosphorus, White	7723-14-0	1.6E+00	n	2.0E+01	n					7.3E-01	n		2.7E-03	
				1.0E+00	H					1	0.1		Phthalic Acid, P-	100-21-0	6.1E+04	n	6.2E+05	nm					3.7E+04	n		1.3E+01	
				2.0E+00	I	2.0E-02	C			1	0.1		Phthalic Anhydride	85-44-9	1.2E+05	nm	1.2E+06	nm	2.1E+01	n	8.8E+01	n	7.3E+04	n		1.6E+01	
				7.0E-02	I					1	0.1		Picloram	1918-02-1	4.3E+03	n	4.3E+04	n					2.6E+03	n	5.0E+02	7.1E-01	1.4E-01
				1.0E-04	X					1	0.1		Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	6.1E+00	n	6.2E+01	n					3.7E+00	n		2.4E-03	
				1.0E-02	I					1	0.1		Pirimiphos, Methyl	29232-93-7	6.1E+02	n	6.2E+03	n					3.7E+02	n		3.5E-01	
3.0E+01	C	8.6E-03	C	7.0E-06	H					1	0.1		Polybrominated Biphenyls	59536-65-1	1.6E-02	c*	5.7E-02	c*	2.8E-04	c	1.4E-03	c	2.2E-03	c			
													Polychlorinated Biphenyls (PCBs)															
7.0E-02	S	2.0E-05	S	7.0E-05	I					1	0.14		~Aroclor 1016	12674-11-2	3.9E+00	n	2.1E+01	c**	1.2E-01	c	6.1E-01	c	9.6E-01	c**		9.2E-02	
2.0E+00	S	5.7E-04	S					V		1	0.14	7.6E+02	~Aroclor 1221	11104-28-2	1.4E-01	c	5.4E-01	c	4.3E-03	c	2.1E-02	c	6.8E-03	c		1.2E-04	
2.0E+00	S	5.7E-04	S					V		1	0.14	7.3E+01	~Aroclor 1232	11141-16-5	1.4E-01	c	5.4E-01	c	4.3E-03	c	2.1E-02	c	6.8E-03	c		1.2E-04	
2.0E+00	S	5.7E-04	S							1	0.14		~Aroclor 1242	53469-21-9	2.2E-01	c	7.4E-01	c	4.3E-03	c	2.1E-02	c	3.4E-02	c		5.3E-03	
2.0E+00	S	5.7E-04	S							1	0.14		~Aroclor 1248	12672-29-6	2.2E-01	c	7.4E-01	c	4.3E-03	c	2.1E-02	c	3.4E-02	c		5.2E-03	
2.0E+00	S	5.7E-04	S	2.0E-05	I					1	0.14		~Aroclor 1254	11097-69-1	2.2E-01	c**	7.4E-01	c*	4.3E-03	c	2.1E-02	c	3.4E-02	c*		8.8E-03	
2.0E+00	S	5.7E-04	S							1	0.14		~Aroclor 1260	11096-82-5	2.2E-01	c	7.4E-01	c	4.3E-03	c	2.1E-02	c	3.4E-02	c		2.4E-02	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		1.2E-02	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		7.2E-03	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		7.4E-03	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		7.4E-03	
3.9E+03	E	1.1E+00	E	3.3E-08	E	1.3E-06	E			1	0.14		~Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	1.1E-04	c*	3.8E-04	c*	2.1E-06	c	1.1E-05	c	1.7E-05	c*		7.2E-06	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		4.5E-03	

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; Y = New York; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information													Contaminant		Screening Levels										Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	voc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		4.4E-03	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		4.5E-03	
3.9E+00	E	1.1E-03	E	3.3E-05	E	1.3E-03	E			1	0.14		~Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	1.1E-01	c*	3.8E-01	c*	2.1E-03	c	1.1E-02	c	1.7E-02	c*		4.5E-03	
1.3E+04	E	3.8E+00	E	1.0E-08	E	4.0E-07	E			1	0.14		~Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.4E-05	c*	1.1E-04	c*	6.4E-07	c	3.2E-06	c	5.2E-06	c*		1.3E-06	
2.0E+00	I	5.7E-04	I							1	0.14		~Polychlorinated Biphenyls (high risk)	1336-36-3	2.2E-01	c	7.4E-01	c	4.3E-03	c	2.1E-02	c					
4.0E-01	I	1.0E-04	I							1	0.14		~Polychlorinated Biphenyls (low risk)	1336-36-3					2.4E-02	c	1.2E-01	c	1.7E-01	c	5.0E-01	2.6E-02	7.8E-02
7.0E-02	I	2.0E-05	I							1	0.14		~Polychlorinated Biphenyls (lowest risk)	1336-36-3					1.2E-01	c	6.1E-01	c					
1.3E+01	E	3.8E-03	E	1.0E-05	E	4.0E-04	E			1	0.14		~Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	3.4E-02	c*	1.1E-01	c*	6.4E-04	c	3.2E-03	c	5.2E-03	c*		8.1E-04	
3.9E+01	E	1.1E-02	E	3.3E-06	E	1.3E-04	E			1	0.14		~Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	1.1E-02	c*	3.8E-02	c*	2.1E-04	c	1.1E-03	c	1.7E-03	c*		2.7E-04	
						6.0E-04	I			1	0.1		Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	8.5E+05	nm	3.6E+06	nm	6.3E-01	n	2.6E+00	n					
													Polynuclear Aromatic Hydrocarbons (PAHs)														
				6.0E-02	I			V		1	0.13		~Acenaphthene	83-32-9	3.4E+03	n	3.3E+04	n					2.2E+03	n		2.2E+01	
				3.0E-01	I			V		1	0.13		~Anthracene	120-12-7	1.7E+04	n	1.7E+05	nm					1.1E+04	n		3.6E+02	
7.3E-01	E	1.1E-04	C						M	1	0.13		~Benz[a]anthracene	56-55-3	1.5E-01	c	2.1E+00	c	8.7E-03	c	1.1E-01	c	2.9E-02	c		1.0E-02	
1.2E+00	C	1.1E-04	C							1	0.13		~Benzo(j)fluoranthene	205-82-3	3.8E-01	c	1.3E+00	c	2.2E-02	c	1.1E-01	c	5.6E-02	c		6.7E-02	
7.3E+00	I	1.1E-03	C						M	1	0.13		~Benzo[a]pyrene	50-32-8	1.5E-02	c	2.1E-01	c	8.7E-04	c	1.1E-02	c	2.9E-03	c	2.0E-01	3.5E-03	2.4E-01
7.3E-01	E	1.1E-04	C						M	1	0.13		~Benzo[b]fluoranthene	205-99-2	1.5E-01	c	2.1E+00	c	8.7E-03	c	1.1E-01	c	2.9E-02	c		3.5E-02	
7.3E-02	E	1.1E-04	C						M	1	0.13		~Benzo[k]fluoranthene	207-08-9	1.5E+00	c	2.1E+01	c	8.7E-03	c	1.1E-01	c	2.9E-01	c		3.5E-01	
7.3E-03	E	1.1E-05	C						M	1	0.13		~Chrysene	218-01-9	1.5E+01	c	2.1E+02	c	8.7E-02	c	1.1E+00	c	2.9E+00	c		1.1E+00	
7.3E+00	E	1.2E-03	C						M	1	0.13		~Dibenz[a,h]anthracene	53-70-3	1.5E-02	c	2.1E-01	c	8.0E-04	c	1.0E-02	c	2.9E-03	c		1.1E-02	
1.2E+01	C	1.1E-03	C							1	0.13		~Dibenzo(a,e)pyrene	192-65-4	3.8E-02	c	1.3E-01	c	2.2E-03	c	1.1E-02	c	5.6E-03	c		7.3E-02	
2.5E+02	C	7.1E-02	C						M	1	0.13		~Dimethylbenz(a)anthracene, 7,12-	57-97-6	4.3E-04	c	6.2E-03	c	1.4E-05	c	1.7E-04	c	8.6E-05	c		8.5E-05	
				4.0E-02	I					1	0.13		~Fluoranthene	206-44-0	2.3E+03	n	2.2E+04	n					1.5E+03	n		1.6E+02	
				4.0E-02	I			V		1	0.13		~Fluorene	86-73-7	2.3E+03	n	2.2E+04	n					1.5E+03	n		2.7E+01	
7.3E-01	E	1.1E-04	C						M	1	0.13		~Indeno[1,2,3-cd]pyrene	193-39-5	1.5E-01	c	2.1E+00	c	8.7E-03	c	1.1E-01	c	2.9E-02	c		1.2E-01	
2.9E-02	P			7.0E-02	A			V		1		3.9E+02	~Methylnaphthalene, 1-	90-12-0	2.2E+01	c	9.9E+01	c					2.3E+00	c		1.2E-02	
				4.0E-03	I			V		1		3.7E+02	~Methylnaphthalene, 2-	91-57-6	3.1E+02	n	4.1E+03	ns					1.5E+02	n		7.5E-01	
		3.4E-05	C	2.0E-02	I	3.0E-03	I	V		1	0.13		~Naphthalene	91-20-3	3.6E+00	c*	1.8E+01	c*	7.2E-02	c*	3.6E-01	c*	1.4E-01	c*		4.7E-04	
1.2E+00	C	1.1E-04	C							1	0.13		~Nitropyrene, 4-	57835-92-4	3.8E-01	c	1.3E+00	c	2.2E-02	c	1.1E-01	c	5.6E-02	c		9.7E-03	
				3.0E-02	I			V		1	0.13		~Pyrene	129-00-0	1.7E+03	n	1.7E+04	n					1.1E+03	n		1.2E+02	
1.5E-01	I			9.0E-03	I					1	0.1		Prochloraz	67747-09-5	3.2E+00	c	1.1E+01	c					4.5E-01	c		2.3E-03	
				6.0E-03	H					1	0.1		Profluralin	26399-36-0	3.7E+02	n	3.7E+03	n					2.2E+02	n		1.3E+01	
				1.5E-02	I					1	0.1		Prometon	1610-18-0	9.2E+02	n	9.2E+03	n					5.5E+02	n		2.6E-01	
				4.0E-03	I					1	0.1		Prometryn	7287-19-6	2.4E+02	n	2.5E+03	n					1.5E+02	n		2.2E-01	
				1.3E-02	I					1	0.1		Propachlor	1918-16-7	7.9E+02	n	8.0E+03	n					4.7E+02	n		2.9E-01	
				5.0E-03	I					1	0.1		Propanil	709-98-8	3.1E+02	n	3.1E+03	n					1.8E+02	n		1.0E-01	
				2.0E-02	I					1	0.1		Propargite	2312-35-8	1.2E+03	n	1.2E+04	n					7.3E+02	n		5.4E+01	
				2.0E-03	I					1	0.1		Propargyl Alcohol	107-19-7	1.2E+02	n	1.2E+03	n					7.3E+01	n		1.5E-02	
				2.0E-02	I					1	0.1		Propazine	139-40-2	1.2E+03	n	1.2E+04	n					7.3E+02	n		6.5E-01	
				2.0E-02	I					1	0.1		Propham	122-42-9	1.2E+03	n	1.2E+04	n					7.3E+02	n		4.7E-01	
				1.3E-02	I					1	0.1		Propiconazole	60207-90-1	7.9E+02	n	8.0E+03	n					4.7E+02	n		1.6E+00	
						8.0E-03	I	V		1		3.3E+04	Propionaldehyde	123-38-6	8.0E+01	n	3.4E+02	n	8.3E+00	n	3.5E+01	n	1.7E+01	n		3.4E-03	
				1.0E-01	X	1.0E+00	X	V		1	0.1	2.6E+02	Propyl benzene	103-65-1	3.4E+03	ns	2.1E+04	ns	1.0E+03	n	4.4E+03	n	1.3E+03	n		2.5E+00	
						3.0E+00	C			1	0.1		Propylene	115-07-1	4.3E+09	nm	1.8E+10	nm	3.1E+03	n	1.3E+04	n					
				2.0E+01	P					1	0.1		Propylene Glycol	57-55-6	1.2E+06	nm	1.2E+07	nm					7.3E+05	n		1.5E+02	
						2.7E-04	A	V		1		1.5E+03	Propylene Glycol Dinitrate	6423-43-4	5.7E+01	n	2.4E+02	n	2.8E-01	n	1.2E+00	n	5.7E-01	n		1.8E-04	
				7.0E-01	H					1	0.1		Propylene Glycol Monoethyl Ether	1569-02-4	4.3E+04	n	4.3E+05	nm					2.6E+04	n		5.2E+00	
				7.0E-01	H	2.0E+00	I			1	0.1		Propylene Glycol Monomethyl Ether	107-98-2	4.3E+04	n	4.3E+05	nm	2.1E+03	n	8.8E+03	n	2.6E+04	n		5.2E+00	
2.4E-01	I	3.7E-06	I			3.0E-02	I	V		1		7.8E+04	Propylene Oxide	75-56-9	2.0E+00	c	9.0E+00	c	6.6E-01	c*	3.3E+00	c*	2.3E-01	c		4.9E-05	
				2.5E-01	I					1	0.1		Pursuit	81335-77-5	1.5E+04	n	1.5E+05	nm					9.1E+03	n		8.0E+00	
				2.5E-02	I					1	0.1		Pydrin	51630-58-1	1.5E+03	n	1.5E+04	n					9.1E+02	n		5.8E+02	
				1.0E-03	I			V		1		5.3E+05	Pyridine	110-86-1	7.8E+01	n	1.0E+03	n					3.7E+01	n		1.3E-02	
				5.0E-04	I					1	0.1		Quinalphos	13593-03-8	3.1E+01	n	3.1E+02	n					1.8E+01	n		1.6E-01	
3.0E+00	I									1	0.1		Quinoline	91-22-5	1.6E-01	c	5.7E-01	c					2.2E-02	c		7.4E-05	
						3.0E-02	A			1			Refractory Ceramic Fibers	NA	4.3E+07	nm	1.8E+08	nm	3.1E+01	n	1.3E+02	n					
				3.0E-02	I					1	0.1		Resmethrin	10453-86-8	1.8E+03	n	1.8E+04	n					1.1E+03	n		6.8E+02	
				5.0E-02	H					1	0.1		Ronnel	299-84-3	3.1E+03	n	3.1E+04	n					1.8E+03	n		1.7E+01	
				4.0E-03	I					1	0.1		Rotenone	83-79-4	2.4E+02	n	2.5E+03	n					1.5E+02	n		7.6E+01	
2.2E-01	C	6.3E-05	C						M	1	0.1		Safrole	94-59-7	5.2E-01	c	7.8E+00	c	1.5E-02	c	1.9E-01	c	9.8E-02	c		6.0E-05	
				2.5E-02	I					1	0.1		Savey	78587-05-0	1.5E+03	n	1.5E+04	n					9.1E+02	n		4.1E+00	
				5.0E-03	I					1			Selenious Acid	7783-00-8	3.9E+02	n	5.1E+03	n					1.8E+02	n			
				5.0E-03	I	2.0E-02	C			1			Selenium	7782-49-2	3.9E+02	n	5.1E+03	n	2.1E+01	n	8.8E+01	n	1.8E+02	n	5.0E+01	9.5E-01	2.6E-01
				5.0E-03	C	2.0E-02	C			1			Selenium Sulfide	7446-34-6	3.9E+02	n	5.1E+03	n	2.1E+01	n	8.8E+01	n	1.8E+02	n			
				9.0E-02	I					1	0.1		Sethoxydim	74051-80-2	5.5E+03	n	5.5E+04	n					3.3E+03	n		2.9E+01	
						3.0E-03	C			1			Silica (crystalline, respirable)	7631-86-9	4.3E+06	nm	1.8E+07	nm	3.1E+00	n	1.3E+01	n					

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Toxicity and Chemical-specific Information														Contaminant		Screening Levels												Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volatile	mutagen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
				5.0E-03	I					0.04			Silver	7440-22-4	3.9E+02	n	5.1E+03	n					1.8E+02	n		1.6E+00	
1.2E-01	H			5.0E-03	I					1	0.1		Simazine	122-34-9	4.1E+00	c*	1.4E+01	c					5.6E-01	c	4.0E+00	2.8E-04	2.0E-03
				1.3E-02	I					1	0.1		Sodium Acifluorfen	62476-59-9	7.9E+02	n	8.0E+03	n					4.7E+02	n		3.8E+00	
				4.0E-03	I					1			Sodium Azide	26628-22-8	3.1E+02	n	4.1E+03	n					1.5E+02	n			
2.7E-01	H			3.0E-02	I					1	0.1		Sodium Diethyldithiocarbamate	148-18-5	1.8E+00	c	6.4E+00	c					2.5E-01	c			
				5.0E-02	A	1.3E-02	C			1			Sodium Fluoride	7681-49-4	3.9E+03	n	5.1E+04	n	1.4E+01	n	5.7E+01	n	1.8E+03	n			
				2.0E-05	I					1	0.1		Sodium Fluoroacetate	62-74-8	1.2E+00	n	1.2E+01	n					7.3E-01	n		1.5E-04	
				1.0E-03	H					1			Sodium Metavanadate	13718-26-8	7.8E+01	n	1.0E+03	n					3.7E+01	n			
2.4E-02	H			3.0E-02	I					1	0.1		Stirofos (Tetrachlorovinphos)	961-11-5	2.0E+01	c*	7.2E+01	c					2.8E+00	c		8.3E-03	
				6.0E-01	I					1			Strontium, Stable	7440-24-6	4.7E+04	n	6.1E+05	nm					2.2E+04	n		7.7E+02	
				3.0E-04	I					1	0.1		Strychnine	57-24-9	1.8E+01	n	1.8E+02	n					1.1E+01	n		1.2E-01	
				2.0E-01	I	1.0E+00	I	V		1		8.7E+02	Styrene	100-42-5	6.3E+03	ns	3.6E+04	ns	1.0E+03	n	4.4E+03	n	1.6E+03	n	1.0E+02	1.8E+00	1.1E-01
				8.0E-04	P					1	0.1		Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	4.9E+01	n	4.9E+02	n					2.9E+01	n		1.7E-01	
						1.0E-03	C			1			Sulfuric Acid	7664-93-9	1.4E+06	nm	6.0E+06	nm	1.0E+00	n	4.4E+00	n					
				2.5E-02	I					1	0.1		Systhane	88671-89-0	1.5E+03	n	1.5E+04	n					9.1E+02	n		1.1E+01	
				3.0E-02	H					1	0.1		TCMTB	21564-17-0	1.8E+03	n	1.8E+04	n					1.1E+03	n		7.6E+00	
				7.0E-02	I					1	0.1		Tebuthiuron	34014-18-1	4.3E+03	n	4.3E+04	n					2.6E+03	n		7.3E-01	
				2.0E-02	H					1	0.1		Temephos	3383-96-8	1.2E+03	n	1.2E+04	n					7.3E+02	n		1.4E+02	
				1.3E-02	I					1	0.1		Terbacil	5902-51-2	7.9E+02	n	8.0E+03	n					4.7E+02	n		1.4E-01	
				2.5E-05	H					1	0.1		Terbufos	13071-79-9	1.5E+00	n	1.5E+01	n					9.1E-01	n		2.0E-03	
				1.0E-03	I					1	0.1		Terbutryn	886-50-0	6.1E+01	n	6.2E+02	n					3.7E+01	n		5.2E-02	
				1.0E-04	I					1	0.1		Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	5436-43-1	6.1E+00	n	6.2E+01	n					3.7E+00	n		9.7E-02	
				3.0E-04	I					1	0.1		Tetrachlorobenzene, 1,2,4,5-	95-94-3	1.8E+01	n	1.8E+02	n					1.1E+01	n		5.1E-02	
2.6E-02	I	7.4E-06	I	3.0E-02	I			V		1		6.8E+02	Tetrachloroethane, 1,1,1,2-	630-20-6	1.9E+00	c	9.3E+00	c	3.3E-01	c	1.7E+00	c	5.2E-01	c		2.0E-04	
2.0E-01	I	5.8E-05	C	2.0E-02	I			V		1		1.9E+03	Tetrachloroethane, 1,1,2,2-	79-34-5	5.6E-01	c	2.8E+00	c	4.2E-02	c	2.1E-01	c	6.7E-02	c		2.6E-05	
5.4E-01	C	5.9E-06	C	1.0E-02	I	2.7E-01	A	V		1		1.7E+02	Tetrachloroethylene	127-18-4	5.5E-01	c	2.6E+00	c	4.1E-01	c	2.1E+00	c	1.1E-01	c	5.0E+00	4.9E-05	2.3E-03
				3.0E-02	I					1	0.1		Tetrachlorophenol, 2,3,4,6-	58-90-2	1.8E+03	n	1.8E+04	n					1.1E+03	n		6.7E+00	
2.0E+01	H									1	0.1		Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	2.4E-02	c	8.6E-02	c					3.4E-03	c		1.1E-05	
				5.0E-04	I					1	0.1		Tetraethyl Dithiopyrophosphate	3689-24-5	3.1E+01	n	3.1E+02	n					1.8E+01	n		1.3E-02	
						8.0E+01	I	V		1		1.1E+03	Tetrafluoroethane, 1,1,1,2-	811-97-2	1.1E+05	nms	4.6E+05	nms	8.3E+04	n	3.5E+05	n	1.7E+05	n		9.3E+01	
				4.0E-03	P					1	0.1		Tetryl (Trinitrophenylmethylnitramine)	479-45-8	2.4E+02	n	2.5E+03	n					1.5E+02	n		1.4E+00	
				1.0E-05	X					1			Thallium (Soluble Salts)	7440-28-0	7.8E-01	n	1.0E+01	n					3.7E-01	n	2.0E+00	2.6E-02	1.4E-01
				1.0E-02	I					1	0.1		Thiobencarb	28249-77-6	6.1E+02	n	6.2E+03	n					3.7E+02	n		1.3E+00	
				7.0E-02	X					1	0.008		Thiodiglycol	111-48-8	5.4E+03	n	6.8E+04	n					2.6E+03	n		5.2E-01	
				3.0E-04	H					1	0.1		Thiofanox	39196-18-4	1.8E+01	n	1.8E+02	n					1.1E+01	n		3.8E-03	
				8.0E-02	I					1	0.1		Thiophanate, Methyl	23564-05-8	4.9E+03	n	4.9E+04	n					2.9E+03	n		2.5E+00	
				5.0E-03	I					1	0.1		Thiram	137-26-8	3.1E+02	n	3.1E+03	n					1.8E+02	n		2.6E-01	
				6.0E-01	H					1			Tin	7440-31-5	4.7E+04	n	6.1E+05	nm					2.2E+04	n		5.5E+03	
						1.0E-04	A			1			Titanium Tetrachloride	7550-45-0	1.4E+05	nm	6.0E+05	nm	1.0E-01	n	4.4E-01	n					
				8.0E-02	I	5.0E+00	I	V		1		8.2E+02	Toluene	108-88-3	5.0E+03	ns	4.5E+04	ns	5.2E+03	n	2.2E+04	n	2.3E+03	n	1.0E+03	1.6E+00	6.9E-01
1.8E-01	X			1.0E-04	X					1	0.1		Toluene-2,5-diamine	95-70-5	2.7E+00	c**	9.6E+00	c**					3.7E-01	c**		1.2E-04	
1.9E-01	H									1	0.1		Toluidine, p-	106-49-0	2.6E+00	c	9.1E+00	c					3.5E-01	c		1.5E-04	
1.1E+00	I	3.2E-04	I							1	0.1		Toxaphene	8001-35-2	4.4E-01	c	1.6E+00	c	7.6E-03	c	3.8E-02	c	6.1E-02	c	3.0E+00	9.4E-03	4.6E-01
				7.5E-03	I					1	0.1		Tralomethrin	66841-25-6	4.6E+02	n	4.6E+03	n					2.7E+02	n		1.0E+02	
				3.0E-04	A					1	0.1		Tri-n-butyltin	688-73-3	1.8E+01	n	1.8E+02	n					1.1E+01	n		2.4E-01	
				1.3E-02	I					1	0.1		Triallate	2303-17-5	7.9E+02	n	8.0E+03	n					4.7E+02	n		1.1E+00	
				1.0E-02	I					1	0.1		Triasulfuron	82097-50-5	6.1E+02	n	6.2E+03	n					3.7E+02	n		3.8E-01	
				5.0E-03	I					1	0.1		Tribromobenzene, 1,2,4-	615-54-3	3.1E+02	n	3.1E+03	n					1.8E+02	n		2.6E-01	
9.0E-03	P			1.0E-02	P					1	0.1		Tributyl Phosphate	126-73-8	5.4E+01	c*	1.9E+02	c*					7.5E+00	c*		3.7E-02	
				3.0E-04	P					1	0.1		Tributyltin Compounds	NA	1.8E+01	n	1.8E+02	n					1.1E+01	n			
				3.0E-04	I					1	0.1		Tributyltin Oxide	56-35-9	1.8E+01	n	1.8E+02	n					1.1E+01	n		5.7E+02	
				3.0E+01	I	3.0E+01	H	V		1		9.1E+02	Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	4.3E+04	ns	1.8E+05	nms	3.1E+04	n	1.3E+05	n	5.9E+04	n		1.5E+02	
										1	0.1		Trichloroacetic Acid	76-03-9											6.0E+01		1.2E-02
2.9E-02	H									1	0.1		Trichloroaniline HCl, 2,4,6-	33663-50-2	1.7E+01	c	5.9E+01	c					2.3E+00	c		6.4E-03	
7.0E-03	X			3.0E-05	X					1	0.1		Trichloroaniline, 2,4,6-	634-93-5	1.8E+00	n	1.8E+01	n					1.1E+00	n		9.9E-03	
				8.0E-04	X			V		1	0.1	1.5E+02	Trichlorobenzene, 1,2,3-	87-61-6	4.9E+01	n	4.9E+02	ns					2.9E+01	n		8.7E-02	
2.9E-02	P			1.0E-02	I	2.0E-03	P	V		1		4.0E+02	Trichlorobenzene, 1,2,4-	120-82-1	2.2E+01	c**	9.9E+01	c**	2.1E+00	n	8.8E+00	n	2.3E+00	c**	7.0E+01	6.8E-03	2.0E-01
				2.0E+00	I	5.0E+00	I	V		1		6.4E+02	Trichloroethane, 1,1,1-	71-55-6	8.7E+03	ns	3.8E+04	ns	5.2E+03	n	2.2E+04	n	9.1E+03	n	2.0E+02	3.2E+00	7.0E-02
5.7E-02	I	1.6E-05	I	4.0E-03	I	2.0E-04	X	V		1		2.2E+03	Trichloroethane, 1,1,2-	79-00-5	1.1E+00	c**	5.3E+00	c**	1.5E-01	c**	7.7E-01	c**	2.4E-01	c**	5.0E+00	7.8E-05	1.6E-03
5.9E-03	C	2.0E-06	C			1.0E-02	Y	V		1		6.9E+02	Trichloroethylene	79-01-6	2.8E+00	c**	1.4E+01	c**	1.2E+00	c**	6.1E+00	c**	2.0E+00	c*	5.0E+00	7.2E-04	1.8E-03
				3.0E-01	I	7.0E-01	H	V		1		1.2E+03	Trichlorofluoromethane	75-69-4	7.9E+02	n	3.4E+03	ns	7.3E+02	n	3.1E+03	n	1.3E+03	n		8.3E-01	
				1.0E-01	I					1	0.1		Trichlorophenol, 2,4,5-	95-95-4	6.1E+03	n	6.2E+04	n					3.7E+03	n		1.4E+01	
1.1E-02	I	3.1E-06	I	1.0E-03	P					1	0.1		Trichlorophenol, 2,4,6-	88-06-2	4.4E+01	c**	1.6E+02	c**	7.8E-01	c	4.0E+00	c	6.1E+00	c**		2.3E-02	
				1.0E-02	I					1	0.1		Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	6.1E+02	n	6.2E+03	n					3.7E+02	n		1.5E-01	
				8.0E-03	I					1	0.1		Trichlorophenoxypropionic acid, -2,4,5	93-72-1	4.9E+02	n	4.9E+03	n					2.9E+02	n	5.0E+01	1.6E-01	2.8E-02

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; X = PPRTV Appendix; H = HEAST; J = New Jersey; Y = New York; O = EPA Office of Water; E = Environmental Criteria and Assessment Office; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; F = See FAQ; c = cancer; * = where: n SL < 100X c SL; ** = where n SL < 10X c SL; n = noncancer; m = Concentration may exceed ceiling limit (See User Guide); s = Concentration may exceed Csat (See User Guide); SSL values are based on DAF=1

Toxicity and Chemical-specific Information													Contaminant		Screening Levels												Protection of Ground Water SSLs	
SFO (mg/kg-day)$^{-1}$	key	IUR (ug/m^3)$^{-1}$	key	RfD_o (mg/kg-day)	key	RfC_i (mg/m^3)	key	volc	muta-gen	GIABS	ABS	C_{sat} (mg/kg)	Analyte	CAS No.	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
				5.0E-03	I			V		1		1.3E+03	Trichloropropane, 1,1,2-	598-77-6	3.9E+02	n	5.1E+03	ns					1.8E+02	n		7.1E-02	
3.0E+01	I			4.0E-03	I	3.0E-04	I	V	M	1		1.4E+03	Trichloropropane, 1,2,3-	96-18-4	5.0E-03	c	9.5E-02	c	3.1E-01	n	1.3E+00	n	7.2E-04	c		3.1E-07	
				3.0E-03	X	3.0E-04	P	V		1		4.5E+02	Trichloropropene, 1,2,3-	96-19-5	7.8E-01	n	3.3E+00	n	3.1E-01	n	1.3E+00	n	6.2E-01	n		3.1E-04	
				3.0E-03	I					1	0.1		Tridiphane	58138-08-2	1.8E+02	n	1.8E+03	n					1.1E+02	n		7.8E-01	
						7.0E-03	I	V		1		2.8E+04	Triethylamine	121-44-8	1.2E+02	n	5.2E+02	n	7.3E+00	n	3.1E+01	n	1.5E+01	n		4.4E-03	
7.7E-03	I			7.5E-03	I					1	0.1		Trifluralin	1582-09-8	6.3E+01	c**	2.2E+02	c*					8.7E+00	c*		2.9E-01	
2.0E-02	P			1.0E-02	P					1	0.1		Trimethyl Phosphate	512-56-1	2.4E+01	c*	8.6E+01	c*					3.4E+00	c		7.4E-04	
						5.0E-03	P	V					Trimethylbenzene, 1,2,3-	526-73-8	7.1E+06	nm	3.0E+07	nm	5.2E+00	n	2.2E+01	n	1.0E+01	n			
						7.0E-03	P	V		1		2.2E+02	Trimethylbenzene, 1,2,4-	95-63-6	6.2E+01	n	2.6E+02	ns	7.3E+00	n	3.1E+01	n	1.5E+01	n		2.1E-02	
				1.0E-02	X			V		1		1.8E+02	Trimethylbenzene, 1,3,5-	108-67-8	7.8E+02	ns	1.0E+04	ns					3.7E+02	n		5.2E-01	
				3.0E-02	I					1	0.019		Trinitrobenzene, 1,3,5-	99-35-4	2.2E+03	n	2.7E+04	n					1.1E+03	n		3.9E+00	
3.0E-02	I			5.0E-04	I					1	0.032		Trinitrotoluene, 2,4,6-	118-96-7	1.9E+01	c**	7.9E+01	c**					2.2E+00	c**		1.3E-02	
				2.0E-02	P					1	0.1		Triphenylphosphine Oxide	791-28-6	1.2E+03	n	1.2E+04	n					7.3E+02	n		3.0E+00	
2.0E-02	P			7.0E-03	P					1	0.1		Tris(2-chloroethyl)phosphate	115-96-8	2.4E+01	c*	8.6E+01	c*					3.4E+00	c*		3.3E-03	
3.2E-03	P			1.0E-01	P					1	0.1		Tris(2-ethylhexyl)phosphate	78-42-2	1.5E+02	c*	5.4E+02	c					2.1E+01	c		1.0E+02	
				3.0E-03	I	3.0E-04	A			1			Uranium (Soluble Salts)	NA	2.3E+02	n	3.1E+03	n	3.1E-01	n	1.3E+00	n	1.1E+02	n	3.0E+01	4.9E+01	1.4E+01
1.0E+00	C	2.9E-04	C						M	1	0.1		Urethane	51-79-6	1.2E-01	c	1.7E+00	c	3.3E-03	c	4.2E-02	c	2.2E-02	c		4.8E-06	
		8.3E-03	P	9.0E-03	I	7.0E-06	P			0.026			Vanadium Pentoxide	1314-62-1	4.0E+02	c**	2.0E+03	c**	2.9E-04	c*	1.5E-03	c*	3.3E+02	n			
				2.0E-02	H					0.026			Vanadium Sulfate	36907-42-3	1.6E+03	n	2.0E+04	n					7.3E+02	n			
				5.0E-03	S					1			Vanadium and Compounds	NA	3.9E+02	n	5.2E+03	n					1.8E+02	n		1.8E+02	
				1.0E-03	I					1	0.1		Vernolate	1929-77-7	6.1E+01	n	6.2E+02	n					3.7E+01	n		2.9E-02	
				2.5E-02	I					1	0.1		Vinclozolin	50471-44-8	1.5E+03	n	1.5E+04	n					9.1E+02	n		7.0E-01	
				1.0E+00	H	2.0E-01	I	V		1		2.8E+03	Vinyl Acetate	108-05-4	9.7E+02	n	4.1E+03	ns	2.1E+02	n	8.8E+02	n	4.1E+02	n		8.8E-02	
		3.2E-05	H			3.0E-03	I	V		1		0.0E+00	Vinyl Bromide	593-60-2	1.1E-01	c*s	5.6E-01	c*s	7.6E-02	c*	3.8E-01	c*	1.5E-01	c*		4.4E-05	
7.2E-01	I	4.4E-06	I	3.0E-03	I	1.0E-01	I	V	M	1		3.9E+03	Vinyl Chloride	75-01-4	6.0E-02	c	1.7E+00	c	1.6E-01	c	2.8E+00	c	1.6E-02	c	2.0E+00	5.6E-06	6.9E-04
				3.0E-04	I					1	0.1		Warfarin	81-81-2	1.8E+01	n	1.8E+02	n					1.1E+01	n		1.2E-02	
				2.0E-01	S	1.0E-01	S	V		1		3.9E+02	Xylene, P-	106-42-3	6.0E+02	ns	2.6E+03	ns	1.0E+02	n	4.4E+02	n	2.0E+02	n		2.0E-01	
				2.0E-01	S	1.0E-01	S	V		1		3.9E+02	Xylene, m-	108-38-3	5.9E+02	ns	2.5E+03	ns	1.0E+02	n	4.4E+02	n	2.0E+02	n		2.0E-01	
				2.0E-01	S	1.0E-01	S	V		1		4.3E+02	Xylene, o-	95-47-6	6.9E+02	ns	3.0E+03	ns	1.0E+02	n	4.4E+02	n	2.0E+02	n		2.0E-01	
				2.0E-01	I	1.0E-01	I	V		1		2.6E+02	Xylenes	1330-20-7	6.3E+02	ns	2.7E+03	ns	1.0E+02	n	4.4E+02	n	2.0E+02	n	1.0E+04	2.0E-01	9.8E+00
				3.0E-04	I					1			Zinc Phosphide	1314-84-7	2.3E+01	n	3.1E+02	n					1.1E+01	n			
				3.0E-01	I					1			Zinc and Compounds	7440-66-6	2.3E+04	n	3.1E+05	nm					1.1E+04	n		6.8E+02	
				5.0E-02	I					1	0.1		Zineb	12122-67-7	3.1E+03	n	3.1E+04	n					1.8E+03	n		5.3E+00	

WESTERN REFINING - GALLUP REFINERY
ANNUAL WELL SAMPLING LOGS - 2010

WELL #SMW-2

GAUGE DATE	7/16/2010
GAUGE TIME	0845 hea
DTB (feet) Depth to Bottom	57.34
DEDICATED PUMP	N
DTW (feet) Depth to Water	25.98
DTB - DTW	31.36
1 Well Volume	0.163
3 Well Volumes	15.34
PURGE DATE	7/16/2010
PURGE TIME	0850 hrs
SAMPLE DAY	7/16/2010
SAMPLE TIME	1435 hrs
PUMP DEPTH DTW (feet) at end of Purging	40 feet

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1427	7.27	17.6	8.245	6.248	5.430	13.9	44.0
(2)	1429	7.28	17.6	8.225	6.230	5.410	19.3	45.0
(3)	1431	7.29	17.5	8.144	6.183	5.370	18.8	46.0
(4)	1433	7.30	17.6	8.157	6.172	5.360	16.2	48.0

WEATHER CONDITIONS

Partly cloudy, slight breeze 0-5 mph. Temp 80-85 deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.

SAMPLE LOG

At 0850 hours on 7/16/2010 started with purge. Water is clear - no odor detected.
Purged approximately 8 gals before pump lost suction. Allowed well to recharge before taking samples.
Samples were labeled and placed in cooler on ice.

WELL #SMW-4

GAUGE DATE	7/16/2010
GAUGE TIME	0920 hrs
DTB (feet) Depth to Bottom	72.22
DEDICATED PUMP	Y
DTW (feet) Depth to Water	29.46
DTB - DTW	42.76
1 Well Volume	0.163
3 Well Volumes	20.91
PURGE DATE	7/16/2010
PURGE TIME	0925 hrs
SAMPLE DAY	7/16/2010
SAMPLE TIME	1345 hrs
PUMP DEPTH DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1329	8.89	14.5	0.96	0.781	0.600	56.50	152.0
(2)	1331	8.72	13.2	0.95	0.797	0.610	20.40	151.0
(3)	1333	8.63	13.7	1.007	0.834	0.650	41.90	146.0
(4)	1335	8.59	14.2	1.037	0.849	0.660	18.10	139.0

WEATHER CONDITIONS

Partly cloudy, slight breeze 0-5 mph. Temp 80-85 deg F.

Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.

SAMPLE LOG

At 0925 hours on 7/16/2010 started with purge. Water is clear - no odor detected.
Purged approximately 9 gals before pump lost suction. Allowed well to recharge before taking samples.
Samples were labeled and placed in cooler on ice.

SIGNATURE: /S/ Cheryl Johnson DATE: 7/16/10

WESTERN REFINING - GALLUP REFINERY
ANNUAL WELL SAMPLING LOGS - 2010

WELL #BW-1C

GAUGE DATE	7/14/2010
GAUGE TIME	1300 hrs
DTB (feet) Depth to Bottom	157.00
DEDICATED PUMP	Y
DTW (feet) Depth to Water	7.19
DTB - DTW	149.81
1 Well Volume	0.163
3 Well Volumes	73.26
PURGE DATE	7/14/2010
PURGE TIME	1312
SAMPLE DAY	7/15/2010
SAMPLE TIME	0845 hrs
PUMP DEPTH DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	837	8.22	13.26	1.751	1.462	1.16	1.8	-45
(2)	839	8.01	13.21	1.762	1.463	1.16	1.8	-67
(3)	841	7.99	13.61	1.769	1.464	1.16	2.7	-82
(4)	843	7.99	13.63	1.764	1.464	1.16	1.2	-90

WEATHER CONDITIONS

Cloudy, overcast - No breeze0-5 mph. Temp 90 - 95 Deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Clear, no odor detected at start and end of purging and when sample was collected.

SAMPLE LOG

Calibrated Instrument for ph, DO, Conductivity, Salinity.
At 1312 hours on 7/14/2010 started with purge. Water is clear - no odor detected.
Pump lost suction and purged approximately 4 gals. Allowed well to recharge for 24 hours before taking samples.
On 7-15-10 at 0845 hours took samples. Samples were labeled and placed in cooler on ice.
One Field sample was also taken at beginning of sampling event.

WELL #BW-1A

GAUGE DATE	7/14/2010
GAUGE TIME	1245 hrs
DTB (feet) Depth to Bottom	40.00
DEDICATED PUMP	N
DTW (feet) Depth to Water	0.00
DTB - DTW	0.00
1 Well Volume	0.163
3 Well Volumes	0.00
PURGE DATE	
PURGE TIME	
SAMPLE DAY	
SAMPLE TIME	
PUMP DEPTH DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	DRY							
(2)								
(3)								
(4)								

WEATHER CONDITIONS

Cloudy, overcast - No breeze0-5 mph. Temp 90 - 95 Deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Not enough water to sample.

SAMPLE LOG

Well is Dry.

SIGNATURE: /S/ Cheryl Johnson DATE: 7/15/10

WESTERN REFINING - GALLUP REFINERY
ANNUAL WELL SAMPLING LOGS - 2010

WELL #MW-1	
GAUGE DATE	7/16/2010
GAUGE TIME	0935 hrs
DTB (feet) Depth to Bottom	132.02
DEDICATED PUMP	Y
DTW (feet) Depth to Water	7.42
DTB - DTW	124.60
1 Well Volume	1.020
3 Well Volumes	381.28
PURGE DATE	7/16/2009
PURGE TIME	0941 hrs
SAMPLE DAY	7/16/2009
SAMPLE TIME	1218 hrs
PUMP DEPTH	N/A
DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1207	9.23	14.09	0.877	0.720	0.550	6.6	94.0
(2)	1209	9.24	14.15	0.879	0.750	0.550	6.4	90.0
(3)	1211	9.24	14.16	0.879	0.751	0.550	6.3	86.0
(4)	1213	9.25	14.27	0.881	0.721	0.550	5.8	82.0

WEATHER CONDITIONS

Partly cloudy, slight breeze, winds 0-5 mph. Temp 90 - 95 Deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.

SAMPLE LOG

At 0941 hours on 7/16/2010 started with purge. Water is clear - no odor detected.
Purged approximately 160 gals before pump lost suction. Allowed well to recharge and took samples.
On 7-16-10 at 1218 hours took samples. Samples were labeled and placed in cooler on ice.

WESTERN REFINING - GALLUP REFINERY

ANNUAL WELL SAMPLING LOGS - 2010

WELL #BW-1C

GAUGE DATE	7/14/2010
GAUGE TIME	1300 hrs
DTB (feet) Depth to Bottom	157.00
DEDICATED PUMP	Y
DTW (feet) Depth to Water	7.19
DTB - DTW	149.81
1 Well Volume	0.163
3 Well Volumes	73.26
PURGE DATE	7/14/2010
PURGE TIME	1312
SAMPLE DAY	7/15/2010
SAMPLE TIME	0845 hrs
PUMP DEPTH DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	837	8.22	13.26	1.751	1.462	1.16	1.8	-45
(2)	839	8.01	13.21	1.762	1.463	1.16	1.8	-67
(3)	841	7.99	13.61	1.769	1.464	1.16	2.7	-82
(4)	843	7.99	13.63	1.764	1.464	1.16	1.2	-90

WEATHER CONDITIONS

Cloudy, overcast - No breeze0-5 mph. Temp 90 - 95 Deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Clear, no odor detected at start and end of purging and when sample was collected.

SAMPLE LOG

Calibrated Instrument for ph, DO, Conductivity, Salinity.
At 1312 hours on 7/14/2010 started with purge. Water is clear - no odor detected.
Pump lost suction and purged approximately 4 gals. Allowed well to recharge for 24 hours before taking samples.
On 7-15-10 at 0845 hours took samples. Samples were labeled and placed in cooler on ice.
One Field sample was also taken at beginning of sampling event.

WELL #BW-1A

GAUGE DATE	7/14/2010
GAUGE TIME	1245 hrs
DTB (feet) Depth to Bottom	40.00
DEDICATED PUMP	N
DTW (feet) Depth to Water	0.00
DTB - DTW	0.00
1 Well Volume	0.163
3 Well Volumes	0.00
PURGE DATE	
PURGE TIME	
SAMPLE DAY	
SAMPLE TIME	
PUMP DEPTH DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	DRY							
(2)								
(3)								
(4)								

WEATHER CONDITIONS

Cloudy, overcast - No breeze0-5 mph. Temp 90 - 95 Deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Not enough water to sample.

SAMPLE LOG

Well is Dry.

SIGNATURE: /S/ Cheryl Johnson DATE: 7/15/10

WESTERN REFINING - GALLUP REFINERY
ANNUAL WELL SAMPLING LOGS - 2010

WELL #BW-1B

GAUGE DATE	7/14/2010
GAUGE TIME	1250 hrs
DTB (feet) Depth to Bottom	67.55
DEDICATED PUMP	N
DTW (feet) Depth to Water	0.00
DTB - DTW	0.00
1 Well Volume	0.163
3 Well Volumes	0.00
PURGE DATE	
PURGE TIME	
SAMPLE DAY	
SAMPLE TIME	
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	DRY							
(2)								
(3)								
(4)								

WEATHER CONDITIONS

Cloudy, no breeze 0-5 mph. Temp 90 - 95 deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Not Applicable

SAMPLE LOG

No water found. Well is dry.

WELL #BW-2B

GAUGE DATE	7/14/2010
GAUGE TIME	1335 hrs
DTB (feet) Depth to Bottom	90.50
DEDICATED PUMP	Y
DTW (feet) Depth to Water	28.13
DTB - DTW	62.37
1 Well Volume	0.163
3 Well Volumes	30.50
PURGE DATE	7/14/2010
PURGE TIME	1340 hrs
SAMPLE DAY	7/15/2010
SAMPLE TIME	0936 hrs
PUMP DEPTH DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	933	7.90	13.40	1.751	1.462	1.160	1.80	-45.0
(2)	935	7.89	13.62	1.762	1.463	1.160	1.80	-67.0
(3)	937	7.89	13.77	1.769	1.464	1.160	2.70	-82.0
(4)	939	7.89	13.65	1.764	1.464	1.160	1.20	-90.0

WEATHER CONDITIONS

Cloudy, overcast - No breeze 0-5 mph. Temp 90 - 95 Deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water clear, no apparent odor detected at start of purge.

SAMPLE LOG

Calibrated Instrument for ph, DO, Conductivity, Salinity.
At 1340 hours on 7/14/2010 started with purge. Water is clear - no odor detected.
Purged approximately 8 gals before pump lost suction. Allowed well to recharge for 24 hours before taking samples.
On 7-15-10 at 0936 hours took samples. Samples were labeled and placed in cooler on ice.

SIGNATURE: /S/ Cheryl Johnson DATE: 7/15/10

WESTERN REFINING - GALLUP REFINERY
ANNUAL WELL SAMPLING LOGS - 2010

WELL #BW-2A

GAUGE DATE	7/14/2010
GAUGE TIME	1355 HRS
DTB (feet) Depth to Bottom	65.50
DEDICATED PUMP	Y
DTW (feet) Depth to Water	32.17
DTB - DTW	33.33
1 Well Volume	0.163
3 Well Volumes	16.30
PURGE DATE	7/15/2010
PURGE TIME	1401 HRS
SAMPLE DAY	7/15/2010
SAMPLE TIME	1009 HRS
PUMP DEPTH	N/A
DTW (feet) at end of Purging	

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1004	8.22	13.26	1.042	0.873	0.680	30.3	-15
(2)	1006	8.01	13.21	1.042	0.874	0.680	3.6	-91
(3)	1008	7.99	13.61	1.052	0.874	0.680	1.5	-128
(4)	1010	7.99	13.63	1.053	0.874	0.680	1.2	-141

WEATHER CONDITIONS

Clear sunny day, breezy, winds 10-15 mph. Temp 85 - 90 Deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water clear, no apparent odor detected at start of purging.
Water turned slightly cloudy towards end of purging.

SAMPLE LOG

At 1401 hours on 7/14/2010 started with purge. Water is clear - no odor detected.
Purged approximately 17 gals before pump lost suction. Allowed well to recharge for 24 hours before taking samples.
On 7-15-10 at 1009 hours took samples. Samples were labeled and placed in cooler on ice.

WELL #BW-2C

GAUGE DATE	7/14/2010
GAUGE TIME	1432 HRS
DTB (feet) Depth to Bottom	151.00
DEDICATED PUMP	N
DTW (feet) Depth to Water	20.80
DTB - DTW	130.20
1 Well Volume	0.163
3 Well Volumes	63.67
PURGE DATE	7/14/2010
PURGE TIME	1435 HRS
SAMPLE DAY	7/15/2010
SAMPLE TIME	1047 HRS
PUMP DEPTH	135 Ft.
DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1038	8.76	15.3	1.235	0.985	0.770	113.60	35.0
(2)	1040	9.03	15.7	1.11	0.877	0.680	27.60	24.0
(3)	1042	9.06	16.5	1.12	0.870	0.670	11.00	14.0
(4)	1044	9.08	15.3	1.09	0.870	0.670	7.30	2.0

WEATHER CONDITIONS

Partly cloudy, breezy 5-10 mph winds. 90-95 deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water slightly cloudy, no odor detected at start and end of purge.

SAMPLE LOG

At 1435 hours on 7/14/2010 started with purge. Water is clear - no odor detected.
Purged approximately 6 gals before pump lost suction. Allowed well to recharge for 24 hours before taking samples.
On 7-15-10 at 1047 hours took samples. Samples were labeled and placed in cooler on ice.

SIGNATURE: /S/ Cheryl Johnson DATE: 7/15/10

WESTERN REFINING - GALLUP REFINERY
ANNUAL WELL SAMPLING LOGS - 2010

WELL #BW-3B

GAUGE DATE	7/14/2010
GAUGE TIME	1510 hrs
DTB (feet) Depth to Bottom	75.00
DEDICATED PUMP	Y
DTW (feet) Depth to Water	32.98
DTB - DTW	42.02
1 Well Volume	0.163
3 Well Volumes	20.55
PURGE DATE	7/14/2010
PURGE TIME	1515 hrs
SAMPLE DAY	7/15/2010
SAMPLE TIME	1441 hrs
PUMP DEPTH	N/A
DTW (feet) at end of Purging	56.07 ft.

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1432	8.22	12.7	1.161	0.988	0.770	5.6	-103.0
(2)	1434	8.10	13.0	1.166	0.984	0.770	3.2	-126.0
(3)	1436	8.15	13.1	1.173	0.987	0.770	2.4	-140.0
(4)	1438	8.17	13.3	1.178	0.987	0.770	2.4	-157.0

WEATHER CONDITIONS

Partly cloudy, breezy 5-10 mph winds. Temp 90 - 95 Deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water slightly cloudy, has brownish tint, no odor detected at start and end of purging.

SAMPLE LOG

At 1515 hours on 7/14/2010 started with purge. Water is clear - no odor detected.
Purged approximately 13 gals before pump lost suction. Allowed well to recharge for 24 hours before taking samples.
On 7-15-10 at 1441 hours took samples. Samples were labeled and placed in cooler on ice.

WELL #BW-3C

GAUGE DATE	7/14/2010
GAUGE TIME	1538 hrs
DTB (feet) Depth to Bottom	155.00
DEDICATED PUMP	N
DTW (feet) Depth to Water	8.18
DTB - DTW	146.82
1 Well Volume	0.163
3 Well Volumes	71.79
PURGE DATE	7/14/2010
PURGE TIME	1541 hrs
SAMPLE DAY	7/15/2010
SAMPLE TIME	1414 hrs
PUMP DEPTH	110
DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1408	8.70	15.7	1.251	0.989	0.770	7.20	52.0
(2)	1410	8.71	15.8	1.255	0.990	0.770	3.90	32.0
(3)	1412	8.71	16.4	1.272	0.990	0.770	3.10	15.0
(4)	1414	8.72	17.3	1.3	0.992	0.770	2.80	0.0

WEATHER CONDITIONS

Partly cloudy, breezy 5-10 mph winds. Temp 90 - 95 Deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water cloudy, brownish tint, no odor detected at start and end of purging.

SAMPLE LOG

At 1541 hours on 7/14/2010 started with purge. Water is clear - no odor detected.
Purged approximately 6 gals before pump lost suction. Allowed well to recharge for 24 hours before taking samples.
On 7-15-10 at 1414 hours took samples. Samples were labeled and placed in cooler on ice.

SIGNATURE: /S/ Cheryl Johnson DATE: 7/15/10

WESTERN REFINING - GALLUP REFINERY
ANNUAL WELL SAMPLING LOGS - 2010

WELL #MW-4

GAUGE DATE	7/19/2010
GAUGE TIME	0930 hrs
DTB (feet) Depth to Bottom	122.14
DEDICATED PUMP	Y
DTW (feet) Depth to Water	7.11
DTB - DTW	115.03
1 Well Volume	1.020
3 Well Volumes	351.99
PURGE DATE	7/19/2010
PURGE TIME	0935 hrs
SAMPLE DAY	7/19/2010
SAMPLE TIME	1511 hrs
PUMP DEPTH DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1500	8.93	12.9	0.880	0.743	0.570	8.4	80.0
(2)	1502	8.90	13.0	0.835	0.704	0.540	13.2	78.0
(3)	1504	8.90	13.1	0.887	0.746	0.570	11.9	76.0
(4)	1506	8.91	13.2	0.887	0.744	0.570	14.4	73.0

Clear sunny day, breezy, winds 5-10 mph. Temp 85 - 90 Deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.

SAMPLE LOG

At 0935 hours on 7/19/2010 started with purge. Water is clear - no odor detected.
Purged approximately 167 gals before pump lost suction. Allowed well to recharge before taking samples.
On 7-19-10 at 1511 hours took samples. Samples were labeled and placed in cooler on ice.

WELL #MW-5

GAUGE DATE	7/19/2010
GAUGE TIME	1138 hrs
DTB (feet) Depth to Bottom	133.02
DEDICATED PUMP	Y
DTW (feet) Depth to Water	12.04
DTB - DTW	120.98
1 Well Volume	0.740
3 Well Volumes	268.58
PURGE DATE	7/19/2010
PURGE TIME	1141 hrs
SAMPLE DAY	7/19/2010
SAMPLE TIME	1353 hrs
PUMP DEPTH DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1350	9.22	13.34	0.885	0.740	0.570	2.30	101.0
(2)	1352	9.22	13.31	0.885	0.740	0.570	1.70	99.0
(3)	1354	9.24	13.33	0.885	0.740	0.570	1.40	95.0
(4)	1356	9.24	13.34	0.885	0.740	0.570	1.60	91.0

WEATHER CONDITIONS

Clear sunny day, slight breeze, winds 0-5 mph.
Temp: 95 - 100 deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.

SAMPLE LOG

At 1141 hours on 7/19/2010 started with purge. Water is clear - no odor detected.
Purged approximately 265 gals and samples collected at 1353 hours.
Samples were labeled and placed in cooler on ice.

SIGNATURE: /S/ Cheryl Johnson DATE: 7/19/10

WESTERN REFINING - GALLUP REFINERY
ANNUAL WELL SAMPLING LOGS - 2010

WELL #OW-12

GAUGE DATE	7/22/2010
GAUGE TIME	0905 hrs
DTB (feet) Depth to Bottom	145.00
DEDICATED PUMP	N
DTW (feet) Depth to Water	48.86
DTB - DTW	96.14
1 Well Volume	0.740
3 Well Volumes	213.43
PURGE DATE	7/22/2010
PURGE TIME	0910 hrs
SAMPLE DAY	7/22/2010
SAMPLE TIME	1016 hrs
PUMP DEPTH	120 feet
DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	942	9.62	16.98	0.923	0.709	0.540	61.3	150
(2)	944	9.63	17.18	0.928	0.709	0.540	61.8	148
(3)	946	9.62	17.34	0.932	0.709	0.540	62.3	146
(4)	948	9.62	17.50	0.935	0.709	0.540	62.7	144

WEATHER CONDITIONS

Partly cloudy, slight breeze 0-5 mph. Temp 80-85 deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.

SAMPLE LOG

Lowered pump to approximately 120- 125 feet, unable to lower pump any futher.
Started with purge at 0910 hours & pump lost suction after 45 gallons. Allowed well to recharge and took samples at 1016 hours. Samples were labeled & placed in cooler on ice. Pump was decontaminated and rinsed before use.

WELL #OW-11

GAUGE DATE	7/28/2010
GAUGE TIME	0905 hrs
DTB (feet) Depth to Bottom	66.62
DEDICATED PUMP	N
DTW (feet) Depth to Water	21.29
DTB - DTW	45.33
1 Well Volume	0.740
3 Well Volumes	100.63
PURGE DATE	7/28/2010
PURGE TIME	0910 hrs
SAMPLE DAY	7/28/2010
SAMPLE TIME	1028 hrs
PUMP DEPTH	55 feet.
DTW (feet) at end of Purging	

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1019	8.69	15.56	2.381	1.888	1.520	3.50	163
(2)	1021	8.69	15.60	2.383	1.888	1.520	3.30	160
(3)	1023	8.69	15.41	2.372	1.887	1.520	2.50	156
(4)	1025	8.69	15.35	2.368	1.886	1.520	2.20	154

WEATHER CONDITIONS

Partly cloudy. Slight breeze 0-5 mph winds. 80-85 deg F.

Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.

SAMPLE LOG

Lowered pump to approximately 40 feet inside casing. Started purging well at 0910 hours.
Purged approximately 65 gallons and took samples at 1028 hours. Samples labeled & placed in cooler on ice.
Pump was decontaminated with Alconox and rinsed before use.

SIGNATURE: /S/ Cheryl Johnson DATE: 7/22 & 28/10

WESTERN REFINING - GALLUP REFINERY
ANNUAL WELL SAMPLING LOGS - 2010

WELL #BW-2A

GAUGE DATE	7/14/2010
GAUGE TIME	1250 hrs
DTB (feet) Depth to Bottom	65.50
DEDICATED PUMP	Y
DTW (feet) Depth to Water	
DTB - DTW	-65.50
1 Well Volume	0.163
3 Well Volumes	-32.03
PURGE DATE	
PURGE TIME	
SAMPLE DAY	7/20/2010
SAMPLE TIME	1218 hrs
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1209	8.09	13.1	1.046	0.880	0.680	2.00	-112
(2)	1211	8.06	13.4	1.052	0.879	0.680	1.30	-143
(3)	1213	8.05	13.4	1.053	0.880	0.680	1.10	-151
(4)	1215	8.05	13.5	1.057	0.880	0.680	0.80	-157

WEATHER CONDITIONS

Cloudy, slight breeze 5-10 mph. Temp 95-100 deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Clear - no odor detected.

SAMPLE LOG

Original samples were shipped federal express overnight on 7-15-10. Federal express was unable to locate the cooler. I waited until Monday 7-19-10 to check if samples were delivered. No show. Well re-sampled on 7-20-10.

WELL #BW-2C

GAUGE DATE	7/14/2010
GAUGE TIME	1335 hrs
DTB (feet) Depth to Bottom	151.00
DEDICATED PUMP	N
DTW (feet) Depth to Water	28.13
DTB - DTW	122.87
1 Well Volume	0.163
3 Well Volumes	60.08
PURGE DATE	7/14/2010
PURGE TIME	1340 hrs
SAMPLE DAY	7/20/2010
SAMPLE TIME	1252 hrs
PUMP DEPTH DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1244	9.00	18.58	1.381	1.023	0.800	25.20	17
(2)	1246	9.06	15.84	1.227	0.904	0.700	17.30	14
(3)	1248	9.04	19.58	1.277	0.926	0.720	16.30	12
(4)	1250	9.03	20.08	1.306	0.937	0.730	16.10	10

WEATHER CONDITIONS

Cloudy, slight breeze 5-10 mph. Temp 95-100 deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water clear, no apparent odor detected.

SAMPLE LOG

Original samples were shipped federal express overnight on 7-15-10. Federal express was unable to locate the cooler. I waited until Monday 7-19-10 to check if samples were delivered. No show. Well re-sampled on 7-20-10.

SIGNATURE: /S/ Cheryl Johnson DATE: 7/15/10

WESTERN REFINING - GALLUP REFINERY
ANNUAL WELL SAMPLING LOGS - 2010

WELL #BW-3B

GAUGE DATE	7/14/2010
GAUGE TIME	1510 hrs
DTB (feet) Depth to Bottom	75.00
DEDICATED PUMP	Y
DTW (feet) Depth to Water	32.98
DTB - DTW	42.02
1 Well Volume	0.163
3 Well Volumes	20.55
PURGE DATE	7/14/2010
PURGE TIME	1515 hrs
SAMPLE DAY	7/20/2010
SAMPLE TIME	1442 hrs
PUMP DEPTH DTW (feet) at end of Purging	N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1420	8.34	13.2	1.178	0.989	0.77	8.6	-157
(2)	1422	8.13	12.4	1.154	0.988	0.77	7.1	-143
(3)	1424	8.16	12.8	1.166	0.989	0.77	3.8	-165
(4)								

WEATHER CONDITIONS

Partly cloudy, breezy 5-10 mph. Temp 95 - 100 deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water clear, no apparent odor detected at start of purging.
Water turned slightly cloudy towards end of purging.

SAMPLE LOG

Original samples were shipped federal express overnight on 7-15-10. Federal express was unable to locate the cooler. I waited until Monday 7-19-10 to check if samples were delivered. No show. Well re-sampled on 7-20-10.

WELL #BW-3C

GAUGE DATE	7/14/2010
GAUGE TIME	1538 hrs
DTB (feet) Depth to Bottom	155.00
DEDICATED PUMP	N
DTW (feet) Depth to Water	8.18
DTB - DTW	146.82
1 Well Volume	0.163
3 Well Volumes	71.79
PURGE DATE	7/14/2010
PURGE TIME	1541 hrs
SAMPLE DAY	7/20/2010
SAMPLE TIME	1418 hrs
PUMP DEPTH DTW (feet) at end of Purging	135 Ft. N/A

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg C	Conductivity (uS), (mS)	TDS (g/L)	Salinity (ppt)	Dissolved Oxygen (%)	ORP (mV)
(1)	1000	8.66	58.1	668	334	0.336	10.88	24.3
(2)	1238	8.67	60.7	771	386	0.388	13.91	17.0
(3)	1239	8.70	61.8	774	387	0.388	13.44	20.8
(4)	1241	8.70	62.1	751	376	0.373	14.11	21.6

WEATHER CONDITIONS

Partly cloudy, breezy 5-10 mph. Temp 95 - 100 deg F.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water slightly cloudy, no odor detected.

SAMPLE LOG

Original samples were shipped federal express overnight on 7-15-10. Federal express was unable to locate the cooler. I waited until Monday 7-19-10 to check if samples were delivered. No show. Well re-sampled on 7-20-10.

SIGNATURE: /S/ Cheryl Johnson DATE: 7/15/10

WESTERN REFINING - GALLUP REFINERY
POST CLOSURE - LTU WELL SAMPLING LOG - 2010

WELL #MW-4	
GAUGE DATE	3/2/2010
GAUGE TIME	0805 hrs
DTB (feet) Depth to Bottom	122.40
DEDICATED PUMP	Y
DTW (feet) Depth to Water	7.74
DTB - DTW	114.66
1 Well Volume	1.020
3 Well Volumes	350.86
PURGE DATE	3/1/2010
PURGE TIME	0810 hrs
SAMPLE DAY	3/1/2010
SAMPLE TIME	1047 hrs
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (ppm)	Salinity (ppt)	Dissolved Oxygen (%)
(1)	814	7.43	55.1	611µs	294	0.313	14.4
(2)	1030	6.64	55.0	621µs	310	0.318	16.1
(3)	1035	6.64	54.7	632µs	335	0.321	21.2
(4)	1038	6.62	54.5	637µs	320	0.323	20.4

WEATHER CONDITIONS

Overcast, cloudy, slight breeze 0-5 mph. Temp 30-35 deg F. muddy conditions.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.
Purged approximately 350 gallons.

SAMPLE LOG

Samples taken at 0810 hours, labeled and placed on ice.

Well re-sampled for Post-Closure activities per Hope with NMED-HWB

SIGNATURE: /S/ Cheryl Johnson DATE: 3/2/2010

WESTERN REFINING - GALLUP REFINERY
POST CLOSURE - LTU WELL SAMPLING LOG - 2010

WELL #MW-5

GAUGE DATE	3/1/2010
GAUGE TIME	1435 hrs
DTB (feet) Depth to Bottom	133.02
DEDICATED PUMP	Y
DTW (feet) Depth to Water	15.13
DTB - DTW	117.89
1 Well Volume	0.740
3 Well Volumes	261.72
PURGE DATE	3/1/2010
PURGE TIME	1440 hrs
SAMPLE DAY	3/1/2010
SAMPLE TIME	1619 hrs
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (ppm)	Salinity (ppt)	Dissolved Oxygen (%)
(1)	1444	4.57	55.7	567µs	283	0.286	9.26
(2)	1605	5.12	54.7	604µs	302	0.308	13.3
(3)	1610	5.40	53.8	589µs	295	0.300	11.83
(4)	1614	5.35	53.7	601µs	299	0.308	11.86

WEATHER CONDITIONS

Clear, sunny day, slight breeze 0-5 mph. Temp 30-35 deg F. muddy conditions.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.
Purged 260 gallons.

SAMPLE LOG

Samples taken at 1619 hours, labeled and placed on ice.

Well re-sampled for Post-Closure activities per Hope with NMED-HWB

WELL #SMW-4

GAUGE DATE	3/1/2010
GAUGE TIME	1135 hrs
DTB (feet) Depth to Bottom	72.22
DEDICATED PUMP	Y
DTW (feet) Depth to Water	29.36
DTB - DTW	42.86
1 Well Volume	0.163
3 Well Volumes	20.96
PURGE DATE	3/1/2010
PURGE TIME	1141 hrs
SAMPLE DAY	3/1/2010
SAMPLE TIME	1203 hrs
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (ppm)	Salinity (ppt)	Dissolved Oxygen (%)
(1)	1145	5.94	54.8	634µs	318	0.323	31.20
(2)	1150	5.47	55.1	620µs	311	0.310	30.40
(3)	1153	4.85	56.8	713µs	356	0.364	28.30
(4)	1200	3.13	56.6	724µs	361	0.369	24.80

WEATHER CONDITIONS

Sunny, clear day. Slight breeze 0-5 mph winds. 30-35 deg F. muddy conditions
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.
Purged approximately 16 gals, pump lost suction. Let sit for a few mins before taking samples.

SAMPLE LOG

Samples taken at 1203 hours , labeled and put on ice.
Well re-sampled for Post-Closure activities per Hope with NMED-HWB.

SIGNATURE: /S/ Cheryl Johnson DATE: 3/1/2010

WESTERN REFINING - GALLUP REFINERY
POST CLOSURE - LTU WELL SAMPLING LOG - 2010

WELL #MW-1

GAUGE DATE	3/1/2010
GAUGE TIME	0925 hrs
DTB (feet) Depth to Bottom	132.02
DEDICATED PUMP	Y
DTW (feet) Depth to Water	6.97
DTB - DTW	125.05
1 Well Volume	1.020
3 Well Volumes	382.65
PURGE DATE	3/1/2010
PURGE TIME	0930 hrs
SAMPLE DAY	3/1/2010
SAMPLE TIME	1115 hrs
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (ppm)	Salinity (ppt)	Dissolved Oxygen (%)
(1)	937	4.67	54.7	636µs	317	0.324	33.8
(2)	1045	3.45	58.1	615µs	307	0.311	32.7
(3)	1055	4.32	58.6	622µs	327	0.314	36.4
(4)	1100	4.26	58.9	635µs	323	0.321	30.2

WEATHER CONDITIONS

Clear, sunny day, slight breeze 0-5 mph. Temp 30-35 deg F.
Muddy conditions.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.
Purged 380 gallons.

SAMPLE LOG

IQ Instrument Calibrated for pH, Conductivitiy and DO before use. Samples taken at 1115 hours, labeled and placed on ice.
Well re-sampled for Post-Closure activities per Hope with NMED-HWB

WELL #MW-2

GAUGE DATE	3/1/2010
GAUGE TIME	1215 hrs
DTB (feet) Depth to Bottom	140.24
DEDICATED PUMP	Y
DTW (feet) Depth to Water	16.77
DTB - DTW	123.47
1 Well Volume	1.020
3 Well Volumes	377.82
PURGE DATE	3/1/2010
PURGE TIME	1220 hrs
SAMPLE DAY	3/1/2010
SAMPLE TIME	1411 hrs
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (ppm)	Salinity (ppt)	Dissolved Oxygen (%)
(1)	1224	3.14	56.6	596µs	297	0.322	16.37
(2)	1355	5.01	54.8	651µs	326	0.334	16.38
(3)	1400	5.14	55.8	655µs	328	0.335	15.56
(4)	1405	5.20	55.7	657µs	328	0.335	12.84

WEATHER CONDITIONS

Sunny, clear day. Slight breeze 0-5 mph winds. 30-35 deg F.
Muddy Conditions
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.
Purged 370 gallons.

SAMPLE LOG

Samples taken at 1411 hours , labeled and put on ice.
Well re-sampled for Post-Closure activities per Hope with NMED-HWB.

SIGNATURE: /S/ Cheryl Johnson DATE: 3/1/2010

WESTERN REFINING - GALLUP REFINERY

JAMESTOWN, NEW MEXICO

SNOW MACHINES by Ponds 3 & 4

MONTH	YEAR	NORTH Z-84-B25 S/N 2842 (7/2002) HOUR METER		TOTAL HR	SOUTH Z-84-B24 S/N 2843 (7/2002) HOUR METER		TOTAL HR	TOTAL GAL/YR
		START	END		START	END		
OCT-DEC	2009	12356.3	12418	61.7	12557.5	12595.1	37.6	238,320
JAN-MAR	2010	12418	13296.2	878.2	12595.1	13429.5	834.4	4,110,240
APR-JUN	2010	13296.2	15119.1	1822.9	13429.5	15216	1786.5	8,662,560
JUL-SEP	2010	15119.1	15963.5	844.4	15216	16040.3	824.3	4,004,880
OCT-DEC	2010	15963.5	16982.1	1018.6	16040.3	16711	670.7	4,054,320
				0			0	0

2010 WASTE WATER BALANCE / EVAPORATION POND RATES

PONDS	GALLONS/YR
Discharged to Ponds (measured at V notch)	**151,886,206**
RAINFALL TO PONDS	**43,244,591**
TOTAL TO PONDS	**195,130,798**
POND EVAPORATION (150 GPM)	**78,840,000**
SNOW MACHINES EVAPORATION(80GPM	**21,070,320**
TOTAL BALANCE IN PONDS	**95,220,478**

2010 WASTE WATER SUMMARY

DATE	TOTAL FLOW TO PONDS			RAIN GAUGE INCHES	FREEBOARD AT PONDS											Comments
					2	3	4	5	6	8	7	11	12a	12b	9	
	TEMP	90 DEGREE V NOTCH "INCHES"	FLOW GPM		feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	
1/1/2010		7.5	338		1.5	1	1	0.42	3.08	4.42	2.17	BM	BM	1.25	OM	
1/2/2010		7.5	338		1.5	1	1	0.42	3.17	4.42	2.17	BM	BM	1.25	OM	
1/3/2010	18	7.5	338		1.5	1	1	0.42	BM	4.42	2.17	BM	BM	1.25	OM	
1/4/2010	18	7.5	338		1.5	1	1.08	0.5	BM		2	BM	BM	1.25	OM	
1/5/2010	20	7.5	338		1.58	1.08	1	0.42	BM	BM	2.25	BM	BM	1.33	OM	
1/6/2010	19	7.5	338		1.58	1.08	1	0.42	BM	BM	2.33	BM	BM	1.33	OM	
1/7/2010	19.3	7.5	338	**0.11**	1.33	0.83	0.67	0.42	BM	BM	1.67	BM	BM	1.25	OM	
1/8/2010	22.7	7.5	338	**0.11**	1.25	0.83	0.67	0.42	BM	BM	1.42	BM	BM	1.25	OM	
1/9/2010	16.4	7.5	338	**0.11**	1.17	0.75	0.67	0.42	BM	BM	1.17	BM	BM	1.25	OM	
1/10/2010	24.5	7.5	338	**0.11**	1.17	0.67	0.58	0.5	BM	BM		BM	BM	1.25	OM	
1/11/2010	3.5	7	284	**0.1**	1.58	0.92	0.5	0.42	BM	BM	1.33	BM	BM	1.33	OM	
1/12/2010	3.5	7	284	**0.01**	1.58	0.92	0.5	0.42	BM	BM	1.33	BM	BM	1.33	OM	
1/13/2010	3.5	7	284		1.58	0.92	0.5	0.42	BM	BM	1.33	BM	BM	1.33	OM	
1/14/2010	3.3	7	284	**0.02**	1.58	0.92	0.5	0.42	BM	BM	1.33	BM	BM	1.33	OM	
1/15/2010		7	284		1.25	0.92	0.42	0.42	4	3	1.25	BM	BM	1.33	OM	
1/16/2010	17.7	7	284		1.33	0.92	0.42	0.42	4	2.83	1	BM	BM	1.25	OM	
1/17/2010		7	284		1.25	0.92	0.42	0.42	3.92	2.5	1.25	BM	BM	1.25	OM	
1/18/2010		6.5	236		1.17	0.92	0.42	0.42	4.08	3.92	1.17	BM	BM	1.25	OM	
1/19/2010	19	7.5	338	**0.18**	1.25	0.83	0.5	0.42	3.92	2.5	1.17	BM	BM	1.25	OM	
1/20/2010	4.7	7.5	338	**0.02**	1.5	0.75	0.58	0.42	4	2.33	1.17	3.17	BM	1.25	OM	
1/21/2010	4.3	7.75	367	**0.24**	1.5	0.58	0.58	0.67	4	4	1.67	2.92	BM	2	OM	
1/22/2010	3.6	7.75	367	**1**	1.5	0.58	0.67	0.67	4	4	1.58	2.92	BM	BM	OM	
1/23/2010	3.2	7.25	310	**0.46**	0.67	0.75	0.08	0.33	3.33	3.42	1.33	2.08	BM	1.17	OM	
1/24/2010	2.1	7.25	310	**0.54**	0.67	0.75	0.33	0.33	3.33	3.42	1.5	1.92	BM	1.25	OM	
1/25/2010	5.7	7.25	310	**0.54**	0.83	0.75	0.33	0.33	3.33	3.25	1.58	1.67	BM	1.25	OM	
1/26/2010	4.6	7.25	310	**0.54**	0.83	0.75	0.33	0.33	3.17	3.33	1.58	1.67	BM	1.25	OM	
1/27/2010	3.8	7	284	**0.1**	0.83	0.75	0.33	0.33	3.17	3.33	1.58	3	BM	1.25	OM	
1/28/2010	3.4	7	284	**0.55**	1.17	0.83	0.33	0.33	3.17	3.33	3.17	3	BM	2.33	OM	
1/29/2010	1.2	7	284	**0.03**	0.83	0.92	0.42	0.33	3.17	3.33	3.17	3	BM	1.33	OM	
1/30/2010	4.2	8	397	**0.02**	1	1.08	0.5	0.42	3.17	3.17	3.17	3	BM	1.5	OM	
2/1/2010	4.7	8	397	**0.1**	1.33	1	0.5	0.5	3.08	3.33	3.08	2.92	BM	2.33	OM	
2/2/2010	4.6	8	397	**0.1**	1.33	1	0.5	0.5	3.08	3.33	3.08	3.08	BM	2.33	OM	
2/6/2010	4.8	8	397	**0.1**	1.33	1	0.5	0.5	3.08	3.33	3.08	2.92	BM	2.33	OM	
2/7/2010	4.7	9	533	**0.1**	1.33	1	0.5	0.5	3.17	3.75	3.08	2.92	BM	2.33	OM	
2/8/2010	24.4	8	397		1.33	0.75	1.17	0.42	2.33	3.5	1.25	1.33	BM	1.25	OM	
2/9/2010	19.2	8	397		1.25	0.75	1.17	0.75	2	3.42	1.25	1.33	BM	1.25	OM	
2/12/2010	16.4	8	397		1.25	0.83	1.25	0.33	1.5	3.33	1.33	1.42	BM	1.25	OM	
2/13/2010	8.7	6.75	260		1.17	1	1.08	0.33	1.67	3.58	1.42	2	1.25	BM	OM	
2/14/2010	8.6	7	284	**0.29**	1.17	1	1.08	0.33	1.67	3.5	2.5	2	BM	1.42	OM	
2/15/2010	4.1	7	284	**0.01**	1.08	1	1.08	0.33	1.67	3.5	2.5	2	BM	1.42	OM	
2/16/2010					0.5	0.42	0.5	0.75	1.25	0.58	0.5	0.33	0.67	0.67	0.33	
2/17/2010					0.5	0.42	0.5	0.75	1.25	0.58	0.58	0.33	0.67	0.67	0.33	
2/18/2010					0.5	0.42	0.5	0.75	1.17	0.58	0.67	0.33	0.67	0.67	0.42	
2/19/2010	7.9	7	284		0.5	0.42	0.5	0.75	1.17	0.58	0.67	0.33	0.67	0.67	0.42	
2/20/2010	8	7.5	338		0.5	0.42	0.58	0.75	1.17	0.58	0.42	0.33	0.67	0.67	0.33	
2/21/2010	6	7.5	338	**0.08**	0.42	0.5	0.58	0.75	1.08	0.58	0.58	0.33	0.67	0.67	0.33	
2/22/2010	4	8	533	**0.12**	0.5	0.33	0.58	0.75	1.17	0.5	0.5	0.5	0.67	0.67	0.33	
2/23/2010	6	7	284		0.5	0.33	0.58	0.75	1.17	0.5	0.5	0.5	0.75	0.67	0.33	
2/24/2010	28.7	9	533	**0.02**	0.83	0.5	0.75	0.83	1.33	0.58	0.58	0.42	0.75	0.92	1.42	
2/25/2010	19.4	8.5	462	**0.02**	1.08	0.58	0.75	1	1.5	0.58	0.58	0.42	0.33	0.92	1.42	
2/27/2010	19.8	8.5	462	**0.02**	1.08	1	0.5	1	1.42	0.58	0.5	0.5	0.33	0.92	1.33	
2/28/2010	6.7	7	284	**0.03**	1.08	0.92	0.33	0.83	1.5	0.67	0.5	0.42	0.42	..83	1.58	
3/1/2010	8.4	7	284	**0.02**	0.92	0.83	0.33	0.75	OM	0.67	1.83	1.67	0.5	0.83	1.5	Repair Work on Dikes 6, 8, and 3.
3/2/2010	8.6	7	284	**0.01**	0.92	0.75	0.33	0.83	2.17	0.67	0.67	0.42	0.83	0.5	1.5	
3/4/2010					2.42	2	1.75	1.75	1.75	3.33	1.42	0.92	2.25	1.08	1.5	
3/5/2010					2.42	2	1.75	1.75	1.75	3.33	1.42	0.92	2.25	1.08	1.5	
3/6/2010					2.5	2	1.83	1.83	1.83	3.33	1.5	1	2.25	1	1.5	
3/7/2010					2.33	2	1.83	1.75	1.67	3.33	1.42	1	2.25	1	1.5	
3/8/2010	4	7.5	338	**0.08**	2.25	1.92	1.75	1.75	2	3.33	1.42	0.92	2.25	0.92	1.58	
3/9/2010	5	8	397		2.25	1.92	1.75	1.83	1.83	3.33	1.5	1	2.17	0.92	1.5	
3/10/2010	4	7.5	338	**0.01**	2.25	1.92	1.75	1.67	1.5	3.25	1.5	0.92	2.17	0.92	1.5	
3/11/2010	5.8	6	193	**0.02**	2.25	1.92	1.75	1.33	1.33	3.42	1.5	0.92	2.25	0.92	1.42	
3/12/2010	4.2	6.75	260		1.33	1.92	1.75	1.75	1.42	3.33	1.42	0.92	1.83	0.92	1.5	
3/13/2010	22	6.75	260		133	1.92	1.75	1.75	1.33	3.33	1.42	1	1.75	0.92	1.5	
3/14/2010	31	6.75	260	**0.01**	1.33	1.92	1.75	1.75	1.25	3.25	1.5	1	1.75	0.92	1.42	

2010 WASTE WATER SUMMARY

DATE	TOTAL FLOW TO PONDS			RAIN GAUGE INCHES	FREEBOARD AT PONDS											Comments
					2	3	4	5	6	8	7	11	12a	12b	9	
	TEMP	90 DEGREE V NOTCH "INCHES"	FLOW GPM		feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	
3/15/2010	13.3	6.75	260	**0.01**	1.42	2	1.75	1.75	1.25	3.25	1.5	1	1.75	0.92	1.42	
3/16/2010	12.7	7	284	**0.01**	1.5	2	1.5	1.75	1.25	3.25	1.42	1	2	0.92	1.5	
3/17/2010	21.6	7.25	310		2.5	1.92	1.75	1.75	1.17	3.33	1.5	1	2	1	1.42	
3/18/2010	9.05	6	193		2.5	1.92	1.75	1.75	1.25	3.25	1.5	1	2	1	1.5	
3/20/2010	30.4	6.75	260		2.42	2	1.75	1.75	1.25	3.25	1.5	2.42	2	1	1.5	
3/24/2010	8	6.5	236	**0.04**	2.33	2.08	1.92	1.67	1.17	3.08	1.25	2.75	2.25	1.17	1.5	
3/25/2010	11	5.5	156		2.25	2.17	2	1.75	1.08	3	1.33	2.67	2.17	1.17	1.5	
3/26/2010	5.4	5	123		2.25	2.17	2	1.75	1.08	3	1.25	2.67	2.17	1.17	1.58	
3/27/2010	7	6	193		2.17	2.17	2.17	1.83	1.08	3.08	1.33	2.67	2.25	1.17	1.5	
3/28/2010	44.7	6.75	260		2.08	2.25	2.08	1.83	1.17	3.25	1.33	2.67	2.25	1.17	1.58	
3/29/2010	32.5	6.75	260		2.08	2.33	2.08	1.92	1.08	3.25	1.33	2.83	2.33	1.17	1.58	
3/30/2010	49.6	6.75	260		2	2.33	2.08	1.92	1.08	3.25	1.33	2.75	2.33	1.17	1.58	
3/31/2010	36.1	6.75	260		1.92	2.42	2.08	1.92	1	3.25	1.33	2.75	2.5	1.08	1.58	
4/1/2010	45.32	7	284		1.83	2.42	2.08	1.92	1.08	3.25	1.33	2.67	2.5	1.08	1.58	
4/2/2010	44.78	6	193	**0.03**	1.67	2.42	2.08	1.92	1.08	3.33	1.42	2.58	2.58	1.08	1.67	
4/3/2010	46.76	5	123		1.5	2.42	1.92	2.17	1.08	3.33	1.42	2.58	2.58	1.08	1.58	
4/4/2010	46.58	5	123		1.5	2.42	2.17	1.92	1.08	3.33	1.33	2.67	2.58	1.08	1.58	
4/9/2010	69.8	5	123		1.83	2.08	1.58	1.58	2.17	3	1.42	2.58	2.33	1.42	1.83	
4/10/2010		4	70.2		1.92	2.17	1.83	1.5	1.17	3	1.42	2.67	2.25	1.42	1.75	
4/11/2010		7	284		2.08	2	1.58	1.5	1.25	3.08	1.42	2.67	2.42	1.42	1.83	
4/12/2010	58.1	6	193		2.25	1.92	1.42	1.5	1.08	3	1.42	2.75	2.42	1.42	1.83	
4/13/2010	64.58	6	193		2.17	2.33	1.75	1.5	1	3	1.42	2.92	2.42	1.5	1.83	
4/14/2010	62.78	7.5	338		2.08	2.33	1.83	1.67	1	3	1.42	2.67	2.42	1.42	1.83	
4/15/2010	62	7.75	367		1.17	2.25	1.67	1.75	1.17	3	1.42	2.67	2.42	1.5	1.83	
4/16/2010	48	7.75	367		2.17	2.33	1.58	1.75	1.17	3.08	1.42	2.75	2.42	1.42	1.92	
4/17/2010	56.48	7	284	**0.3**	2.08	2.33	1.5	1.75	1.25	3.17	1.42	2.5	2.33	1.25	1.92	
4/18/2010	57.92	6.75	260		2	2.25	1.5	1.75	1.25	3.17	1.42	2.42	2.33	1.25	1.92	
4/19/2010	42	6.75	260		2.17	2.33	1.42	1.75	1.25	3.08	1.42	2.42	2.33	1.33	1.92	
4/20/2010	57.92	5.5	156		2.17	2.42	1.5	1.75	1.25	3.17	1.33	2.42	2.33	1.33	2	
4/21/2010	59	6	193		1.08	2.33	1.5	1.58	1.17	1.33	1.33	2.33	1.92	1.17	0.92	
4/22/2010	59	6	193	**0.4**	0.75	2.17	1.5	1.83	0.67	1.5	1.5	0.67	2	1.25	1.83	
4/23/2010	57.2	6	193		2	2.42	1.42	1.83	1.08	1.5	1.5	2.5	0.58	1.25	1.92	
4/24/2010	56.3	6	193		2	2.42	1.42	1.83	1.17	1.5	1.5	2.5	2.17	1.25	2	
4/25/2010	51.98	5.75	174	**0.04**	2	2.42	1.42	1.92	1.17	1.5	1.58	2.5	2.25	1.33	2	
4/26/2010	60.98	6	193	**0.03**	2	2.42	1.42	1.92	1.08	1.5	1.5	2.5	2.25	1.33	2	
4/27/2010	56.12	6.5	236	**0.02**	1.92	2.42	1.42	1.92	1.17	1.5	1.58	2.5	2.25	1.33	2	
4/28/2010	60.98	7	284		1.92	2.42	1.42	1.92	1.25	1.5	1.58	2.5	2.25	1.25	1.92	
4/29/2010	38	6.75	260	**0.03**	2	2.33	1.33	1.92	1.33	3.33	1.67	2.58	2.33	1.33	1.92	
4/30/2010	36	6.75	260	**0.01**	2	2.33	1.25	1.83	1.33	3.33	1.58	2.58	2.33	1.33	2	
5/1/2010	46	6.75	260	**0.01**	2	2.25	1.17	1.83	1.25	3.33	1.42	2.67	2.25	1.25	2	
5/2/2010	34	6.75	260	**0.14**	2	2.25	1.08	1.75	1.25	3.33	1.58	2.67	2.25	1.25	2	
5/3/2010	47.12	7	284	**0.04**	2	2.25	1.17	1.92	1.25	1.5	1.58	2.67	2.25	1.25	1.92	
5/4/2010	47.12	7	284		2	2.25	1.08	1.75	1.25	1.5	1.58	2.83	2.25	1.25	1.92	
5/5/2010	59	6.75	260	**0.03**	2	2.25	1.08	1.75	1.17	1.83	1.58	2.83	2.25	1.25	1.92	
5/6/2010	60.26	5.5	156		2.08	2.25	1.42	1.67	1.17	1.5	1.75	2.67	2.33	1.33	2	
5/7/2010					2.17	2.25	1.42	1.67	1.08	2.67	3.42	2	2	2.25	3.42	
5/8/2010					2.17	2.33	1.42	1.67	1.08	1.75	3.42	2	2.67	2.25	1.25	
5/9/2010					2.17	2.25	1.42	1.75	1.08	3.5	1.75	2.58	2.58	2.33	2.08	
5/10/2010					1.58	2.17	2.25	1.75	1.17	3.5	1.75	2.58	2.75	2.33	2	
5/11/2010	58.82	7	284		1.17	1.33	1.5	1.92	1.33	3.5	1.67	2.92	2.42	1.25	1.92	
5/12/2010	53.06	7	284		2.25	2.25	1.42	1.75	1.25	3.92	1.75	2.75	2.42	1.33	2	
5/13/2010	56.66	7	284		2.25	2.25	1.42	1.75	1.33	3.17	1.75	2.75	2.33	1.25	1.92	
5/14/2010	56.84	7	284		2.25	2.25	1.42	1.75	1.33	3.92	1.75	2.58	2.33	1.25	1.92	
5/15/2010	44	7	284		2.33	2.33	1.42	1.75	1.33	3.5	1.83	2.83	2.33	1.25	2.08	
5/16/2010		6	193		2.25	2.25	1.42	1.25	1.67	3.83	1.92	2.83	1.25	1.25	2.08	
5/17/2010	47	6.75	260		2.33	2.25	1.42	1.75	1.25	3.67	1.92	2.92	2.33	1.33	2.17	
5/18/2010	38	6.75	260		2.33	2.42	1.42	1.75	1.25	3.75	1.92	2.92	2.33	1.33	2.08	
5/19/2010	59.72	6.75	260		2.42	2.25	1.42	1.75	1.25	3.75	1.92	3	2.42	1.25	2.17	
5/20/2010	57.92	6.75	260		2.42	2.42	1.42	1.75	1.17	3.75	1.92	3	2.42	1.33	2.08	
5/21/2010	62.6	6.75	260		2.42	2.25	1.42	1.75	1.33	3.83	1.92	3	2.42	1.33	2	
5/22/2010	63.32	6.75	260		2.42	2.25	1.42	1.75	1.42	3.83	2.08	3	2.5	1.33	1.92	
5/23/2010					2.42	2.42	2.25	1.5	1.83	3.83	2.08	3.08	2.58	1.33	2	
5/24/2010					2.42	2.25	1.33	1.83	1.58	3.75	2.08	3.08	2.58	1.33	2	
5/25/2010					2.42	2.25	1.5	1.83	1.58	3.92	2.08	3.08	2.58	1.33	2	
5/26/2010					2.42	2.25	1.5	1.83	1.58	2.08	3.92	2.58	1.33		3.17	

2010 WASTE WATER SUMMARY

DATE	TOTAL FLOW TO PONDS			RAIN GAUGE INCHES	FREEBOARD AT PONDS											Comments
					2	3	4	5	6	8	7	11	12a	12b	9	
	TEMP	90 DEGREE V NOTCH "INCHES"	FLOW GPM		feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	
5/27/2010	71.78	7	284		2.42	2.33	1.33	1.83	2	4.08	2.08	BM	2.5	1.33	2.08	
5/28/2010	64.94	7	284		2.42	2.33	1.5	1.83	2	4.08	2.08	BM	2.5	1.33	2.08	
5/29/2010	62.78	6.75	260		2.42	2.33	1.58	1.92	2	4.17	2.08	BM	2.5	1.33	2.17	
5/30/2010	63.14	6.75	260		2.42	2.33	1.58	1.92	2	4.17	2.08	BM	2.5	1.33	2.17	
5/31/2010	48	6.75	260		2.42	2.33	1.5	1.92	1.58	1.58	BM	BM	BM	1.25	2.17	
6/1/2010	52	6.75	260		2.42	2.33	1.58	1.92	1.5	4.08	BM	BM	BM	1.25	2.17	
6/2/2010	38	6.75	260		2.42	2.33	1.5	1.92	1.5	4.08	BM	BM	BM	1.25	2.25	
6/3/2010	52	6.75	260		2.42	2.33	1.5	1.92	1.5	4.17	BM	BM	BM	1.25	2.25	
6/4/2010	71.96	6.25	214		2.42	2.33	1.5	1.83	1.5	4.17	BM	BM	BM	1.25	2.17	
6/5/2010	74.12	8	397		2.42	2.33	1.5	1.92	1.5	4.17	BM	BM	BM	1.25	2.17	
6/6/2010	73.4	8	397		2.42	2.33	1.5	1.92	1.5	4.17	BM	BM	BM	1.25	2.25	
6/7/2010		8	397		2.42	2.33	1.5	1.92	1.67		BM	BM	BM	1.25	2.33	
6/8/2010					2.42	2.33	1.5	1.83	1.5	BM	BM	BM	BM	1.25	2.33	
6/9/2010					2.42	2.33	1.5	1.83	1.5	BM	BM	BM	BM	1.25	2.33	
6/10/2010					2.42	2.33	1.5	1.83	1.5	BM	BM	BM	BM	1.25	2.33	
6/11/2010					2.42	2.33	1.5	1.83	1.58	BM	BM	BM	BM	1.25	2.42	
6/12/2010	65.84	6.5	236		2.42	2.33	1.5	1.92	1.25	BM	BM	BM	BM	1.25	2.5	
6/13/2010	65.48	6.5	236		2.42	2.33	1.5	1.92	1.67	BM	BM	BM	BM	1.25	2.5	
6/14/2010	66.02	6.5	236		2.42	2.33	1.5	1.92	1.67	BM	BM	BM	BM	1.25	1.67	
6/15/2010	66.02	6.5	236		2.42	2.33	1.5	1.92	1.67	BM	BM	BM	BM	1.25	2.5	
6/16/2010	68	6.75	260		2.42	2.33	1.5	1.92	1.58	BM	BM	BM	BM	1.25	2.5	
6/17/2010	67	6.5	236		2.42	2.33	1.5	1.92	1.58	BM	BM	BM	BM	1.25	2.5	
6/18/2010	64	6.5	236		2.42	2.33	1.5	1.92	1.67	BM	BM	BM	BM	1.25	2.5	
6/19/2010	69	6.75	260		2.42	2.33	1.5	1.92	1.67	BM	BM	BM	BM	1.25	2.58	
6/20/2010					2.42	2.33	1.5	1.92	1.58	BM	BM	BM	BM	1.25	2.58	
6/21/2010	75.2	7.5	338		2.42	2.33	1.58	2	2	BM	BM	BM	BM	1.25	2.58	
6/22/2010	78.8	7.5	338		2.42	2.33	1.58	1.92	2	BM	BM	BM	BM	1.25	2.67	
6/23/2010	78.8	7	284		2.42	2.33	1.5	2	2	BM	BM	BM	BM	1.25	2.67	
6/24/2010					2.42	2.33	1.58	1.92	1.67	BM	BM	BM	BM	1.25	BM	
6/25/2010					2.42	2.33	1.58	1.92	1.58	BM	BM	BM	BM	1.25	BM	
6/27/2010					2.42	2.33	1.58	1.83	1.58	BM	BM	BM	BM	1.25	BM	
6/28/2010	70.6	6.5	236	**0.51**	2.58	2.42	1.5	1.83	1.67	BM	BM	BM	BM	1.25	BM	
6/29/2010	69.62	6.5	236		2.58	2.42	1.5	1.83	1.67	BM	BM	BM	BM	1.25	BM	
6/30/2010	69.08	6.5	236		2.58	2.42	1.5	1.83	1.67	BM	BM	BM	BM	1.25	BM	
7/1/2010	70.7	6.5	236		2.58	2.33	1.5	1.83	1.67	BM	BM	BM	BM	1.25	BM	
7/2/2010	51	7	284	**0.09**	2.58	2.42	1.5	1.83	1.58	BM	BM	BM	BM	1.25	2.5	
7/3/2010	63	7	284		2.5	2.42	1.5	1.83	1.58	BM	BM	BM	BM	1.25	2.5	
7/4/2010	51	7	284		2.33	2.17	1.5	1.83	1.58	BM	BM	BM	BM	1.25	2.5	
7/5/2010	68	7	284		2.33	2.17	1.42	1.83	1.58	BM	BM	BM	BM	1.25	2.5	
7/6/2010	72	7.5	338		2.33	2.17	1.42	1.83	1.58	BM	BM	BM	BM	1.25	BM	
7/7/2010		7	284		2.33	2.25	1.42	1.83	1.58	BM	BM	BM	BM	1.25	BM	
7/8/2010	64	7.5	338	**0.14**	2.33	2.17	1.42	1.75	1.83	BM	BM	BM	BM	1.25	2.83	
7/9/2010	66	7.5	338		2.25	2.17	1.42	1.75		BM	BM	BM	BM	1.25		
7/10/2010				**0.17**	2.33	1.33	1.42	1.75	1.5	BM	BM	BM	BM	1.25	BM	
7/11/2010					2.33	2.17	1.42	1.75	1.5	BM	BM	BM	BM	1.25	BM	
7/12/2010					2.33	2.17	1.42	1.75	1.42	4.08	4.08	3.58	4.25	1.25	3.5	
713/10				**0.05**	2.33	2.17	1.42	1.75	1.33	4.08	4	3.58	4.25	1.25	3.5	
7/14/2010	73.76	6.5	236	**0.13**	2.33	2.17	1.42	1.75	1.58	4.08	4	3.58	4.25	1.25	3.42	
7/15/2010	71.96	6.5	236	**0.05**	2.33	2.17	1.42	1.75	1.75	4.08	4	3.58	4.25	1.25	3.17	
7/16/2010	71.78	6.5	236		2.33	2.17	1.42	1.75	1.75	4.08	4.08	3.58	4.25	1.25	3.17	
7/17/2010	73.22	6.5	236		2.33	2.17	1.42	1.75	2	4.08	4.08	3.58	4.25	1.25	3.17	
7/18/2010	65	7	284		2.42	2.17	1.42	1.75	1.92	4.17	4.08	3.58	4.25	1.25	3.08	
7/19/2010	56	7	284	**0.01**	2.42	2.17	1.42	1.75	2	4.17	4.17	3.67	4.25	1.25	3.08	
7/20/2010	48	7.25	310	**0.03**	2.42	2.17	1.42	1.75	2	4.17	4.17	3.67	4.25	1.25	3.17	
7/21/2010	52	7	284		2.42	2.17	1.42	1.75	1.92	4.25	BM	3.75	4.33	1.25	3.17	
7/22/2010		7.5	338		2	2.17	1.42	1.75	2	4.17	4.17	4	4.08	1.25	3.08	
7/23/2010		7.5	338	**0.03**	2.33	2.17	1.42	1.75	2	4.17	4.17	4	4.08	1.25	3.08	
7/24/2010		7.5	338	**0.01**	2.33	2.17	1.42	1.75	2	4.17	4.17	4	4.08	1.25	3.08	
7/25/2010		7.5	338	**0.41**	2.33	2.08	1.42	1.67	2	4.17	4.17	4	4.08	1.25	3.08	
7/26/2010				**0.2**												Unable to get readings-Heavy Rain
7/27/2010				**0.09**												Unable to get readings-Heavy Rain
7/30/2010				**1.35**	2.25	2.08	1.33	1.67	1.58	4	4	3.42	4	1.25	2.75	
7/31/2010					1.83	2	1.25	1.58	1.58	3.92	4	3.33	3.92	1.25	2.5	
8/1/2010				**0.76**	1.58	2	1	1.42	1.42	3.83	3.83	3.33	3.33	1.17	2.33	
8/2/2010	72.32	8.5	462	**0.12**	1.42	2	1.17	1.5	1.25	3.83	3.83	3.33	3.83	1.25	2.5	

2010 WASTE WATER SUMMARY

DATE	TOTAL FLOW TO PONDS			RAIN GAUGE INCHES	FREEBOARD AT PONDS											Comments
					2	3	4	5	6	8	7	11	12a	12b	9	
	TEMP	90 DEGREE V NOTCH "INCHES"	FLOW GPM		feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	
8/3/2010	41	9	533	1	0.83	1.83	0.5	1.33	1.17	3.75	3.67	3	3.92	1.17	2.33	
8/4/2010	57	8	397	0.63	0.83	1.5	0.33	1.25	1	3.75	3.67	3	3.92	1.17	2.17	
8/5/2010	53	8	397	0.06	1.58	1.58	1.25	1.08	0.92	3.67	3.5	2.92	3.67	1	2.25	
8/6/2010	62	8	397	0.02	1.67	1.92	1.08	1.33	0.75	3.67	3.42	2.92	3.67	0.92	2.25	
8/7/2010		8	397	0.16	1.75	1.08	1.42	1.58	0.83	3.33	3.17	3	3.67	1	2.17	
8/8/2010		8	397	0.02	1.75	1.92	1.17	1.67	1	3.83	3.33	3	3.67	0.67		
8/9/2010	70.16	8	397	0.02	1.67	1.92	1.25	1.83	1	3.5	3.17	2.92	3.5	0.67	2.25	
8/10/2010	69.62	9	533	0.01	1.67	1.92	1.25	1.67	1.17	3.42	3.08	2.67	3.42	0.92	2.25	
8/15/2010		9	533		2.08	1.92	1.25	1.58	1.67	3	3	2.83	3.58	1.25	2.33	
8/16/2010		7.5	338		2.08	1.92	1.25	1.58	1.83	2.92	2.92	2.67	3.58	1.25	2.42	
8/17/2010	84.2	7.5	338		2.17	2	1.33	1.58	1.92	2.5	2.5	2.75	3.58	1.25	2.42	
8/18/2010	72.32	7.5	338		2.17	2	1.33	1.58	1.92	2.67	2.67	2.75	3.58	1.25	2.5	
8/19/2010	75.2	7.5	338		1.17	1.92	1	1.33	2	2.5	3	3	1.17	1.25	2.5	
8/20/2010		7	284		1.75	2	1.33		2	2.5	2.83	3	4	1.25	1.17	
8/21/2010		7	284		1.42	2	1.17	1.58	2	3	2.75	2.92	4	1.25	1.5	
8/22/2010	69.98	7.5	338		2.33	2	1.42	1.67	2	2.92	2.42	2.75	3.92	1.33	2.5	
8/23/2010	73.22	7	284		2.33	2	1.42	1.67	1.92	2.83	2.58	2.75	3.75	1.33	2.42	
8/24/2010	77.9	7	284		2.42	2	1.42	1.67	2	2.92	2.5	2.83	3.83	1.33	2.42	
8/25/2010	77.36	6.5	236		2.42	2.08	1.42	1.67	2	2.92	2.33	2.83	3.92	1.33	2.5	
8/26/2010	87.44	6.5	236		2.42	2.17	1.5	1.67	2	2.92	2.42	2.67	3.92	1.33	2.5	
8/31/2010	65.12	7.5	338		2.42	2	1.5	1.67	2.08	3	2.42	2.83	4	1.33	2.58	
9/1/2010	64.94	7.5	338		2.42	2	1.5	1.67	2.08	3	2.42	2.83	4	1.33	2.58	
9/2/2010	64.76	7.5	338		2.42	2	1.5	1.58	2.08	2.58	2.42	2.83	4	1.33	2.58	
9/3/2010	68	7.5	338		2.42	2	1.5	1.75	2.08	3	2.42	2.67	4	1.33	3	
9/4/2010					2.42	2	1.5	1.67	2	3.08	2.5	3	4.08	1.33	2.67	
9/5/2010	52	7	284		2.42	2	1.5	1.67	1.92	3.08	2.5	3	4.08	1.33	2.75	
9/6/2010	62	7	284		2.42	2	1.5	1.67	1.83	3.08	2.5	3	4.08	1.33	2.75	
9/7/2010	54	7	284		2.42	2	1.5	1.75	1.75	3.17	2.5	3	4.08	1.33	2.75	
9/8/2010	74.12	7	284		2.42	2	1.5	1.75	1.83	3.08	2.5	3	4.08	1.33	2.75	
9/9/2010	68.54	7	284		2.42	2	1.42	1.75	1.83	3.08	2.5	3	4.08	1.33	2.75	
9/10/2010	71.42	6.75	260		2.42	2	1.42	1.75	1.75	3.08	2.5	3	4.08	1.33	2.75	
9/11/2010	72.5	7	284		2.42	2	1.42	1.67	1.67	3.08	2.5	3	4.08	1.33	2.75	
9/12/2010		6	193		2.33	2	1.5	1.67	2	3.17	3	3.08	4.17	1.25	3	
9/13/2010	73.4	6.5	236		2.33	2	1.5	1.67	1.5	3.08	2.83	3.08	4.08	1.33	3	
9/14/2010	72	6.5	236		2.42	2	1.42	1.67	1.5	3.17	3	3.17	4.17	1.33	3	
9/15/2010	74	7	284		2.33	2.08	1.42	1.67	1.5	3.17	3	3.17	4.17	1.33	3	
9/16/2010	67.28	7.5	338		2.33	2.08	1.42	1.67	1.58	3.17	2.83	3.17	4.17	1.33	3	
9/17/2010	66.02	7.5	338		2.33	2	1.42	1.92	1.5	3.25	2.83	3.17	4.17	1.33	3	
9/18/2010	65.84	7.5	338		2.33	2	1.42	1.75	1.42	3.25	2.83	3.17	4.17	1.33	3.08	
9/19/2010	65.66	7.5	338		2.33	2	1.42	1.75	1.42	3.25	2.83	3.17	4.17	1.33	3.08	
9/20/2010	38	7.5	338		2.33	2	1.42	1.67	1.33	3.08	2.67	3.17	4.17	1.33	2.83	
9/21/2010	54.5	7.5	338		2.33	2	1.42	1.67	1.25	3.33	2.67	3.17	4.17	1.33	2.92	
9/23/2010	54	7.5	338		2.17	1.92	1.33	1.67	1.08	3.33	2.67	3.17	4.17	1.33	2.83	
9/24/2010	68.9	6.75	260		2.17	2	1.42	1.67	1	3.33	2.67	3.17	4.17	1.42	2.92	
9/25/2010	61.88	6.5	236		2.08	2	1.33	1.67	1	3.33	2.67	3.17	4.17	1.42	2.92	
9/26/2010	62.78	6.75	260		2.08	2	1.42	1.67	1	3.08	2.67	3.17	4.17	1.42	2.92	
9/27/2010	62.06	6.75	260		2.08	2	1.42	1.67	1	3	2.75	3.25	4.08	1.42	2.92	
10/2/2010	60.8	7	284		2.08	2	1.42	1.67	1.17	2.42	3	3.17	4.17	1.33	3	
10/3/2010	62.96	7	284		2.08	2	1.42	1.67	1.42	2.42	2.67	3.17	4.17	1.42	3	
10/4/2010	60.8	7	284		2.08	2	1.42	1.67	1.33	2.42	2.67	3.17	4.17	1.33	3	
10/5/2010	60.44	7	284		2.08	2	1.42	1.67	1.33	2.5	2.58	3.17	4.17	1.33	3.08	
10/6/2010	44	7	284		2	2	1.33	1.67	1.33	2.5	2	58	3.17	4.17	1.33	
10/7/2010	38	7	284		2	2	1.33	1.67	1.25	2..5	2.58	3.25	4.17	1.42	3	
10/8/2010	38	7.5	338		2	2.08	1.42	1.67	1.42	2.5	2.5	3.08	4.17	1.42	3.08	
10/9/2010	42	7	284		2	2	1.42	1.67	1.42	2.5	2.42	2.25	4.17	1.42	3.08	
10/10/2010	61.88	6.5	236		2	2	1.42	1.67	1.42	2.5	2.42	3.25	4.17	1.42	3.08	
10/11/2010	54.68	6.5	236		2	2.08	1.42	2.67	1.42	2.5	2.42	3.25	4.17	1.42	3.08	
10/12/2010	55.22	6.75	260		2	2.08	1.42	1.67	1.42	2.5	2.42	3.25	4.17	1.42	3.08	
10/19/2010		7	284		2.17	2.08	1.42	1.67	1.58	2.67	2	3.33	4.17	1.33	3.33	
10/20/2010		7	284		2.42	2.08	1.42	1.67	1.5	2.67	2	3.33	4.17	1.33	3.33	
10/21/2010					1.75	1.08	1.33	1.08	OM	1.17	1.83	BM	BM	1.17	1.25	
10/22/2010	38	7	284		2.08	2	1.42	1.67	1.17	2.58	2	3.33	4.17	1.33	3.17	
10/23/2010	36	7	284		2.08	2	1.5	1.67	1.25	2.58	2	3.33	4.17	1.33	3.08	
10/24/2010					2.08	2	1.42	1.67	1.25	2.58	2	3.33	4.08	1.33	3.08	
10/25/2010	34	7	284		2.08	2	1.42	1.67	1.17	2.67	2	3.42	4	1.33	3.17	

2010 WASTE WATER SUMMARY

DATE	TOTAL FLOW TO PONDS			RAIN GAUGE INCHES	FREEBOARD AT PONDS											Comments
					2	3	4	5	6	8	7	11	12a	12b	9	
	TEMP	90 DEGREE V NOTCH "INCHES"	FLOW GPM		feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	
10/26/2010	44.78	6.75	260		2.08	2	1.42	1.67	1.33	2.67	2.08	3.42	3.83	1.33	3.17	
10/27/2010	51.62	6.5	236		2.08	2	1.42	1.67	1.33	2.67	2.08	3.42	3.58	1.33	3.17	
10/28/2010	54.86	7	284		2.08	2	1.42	1.67	1.33	2.67	2.08	3.42	3.58	1.33	3.17	
10/29/2010	55.22	6.5	236		2.08	2	1.42	1.67	1.33	2.67	2.17	3.42	3.58	1.33	3.17	
11/4/2010	48	7	284		2	2	1.42	1.67	2	3	2.33	2.83	4	1.33	3	
11/5/2010	48	7	284		2.08	2	1.33	1.67	1.83	2.83	2.17	2.75	3.67	1.42	3.08	
11/6/2010	69.44	7	284		2	2	1.42	2.67	1.92	3	2.33	2.58	4	1.33	3	
11/7/2010					2	2	1.33	1.67	1.92	2.75	2.25	2.5	2.83	1.33	3.17	
11/8/2010					2	1.92	1.33	1.67	2.08	2.83	2.33	2.5	2.83	1.42	3.17	
11/9/2010	50	6.5	236		2	2	1.42	1.67	2	3	2.17	2.17	4	1.33	3.25	
11/10/2010	50	7	284		2.08	1.92	1.33	1.42	2.25	0.67	2.33	2.33	3.75	1.42	3.33	
11/11/2010	46	7	284		2	2	1.33	1.67	2.08	2.83	2.33	2.42	3.67	1.42	3.33	
11/12/2010	54.32	6.75	260		2	2	1.33	1.67	2.08	2.83	2.33	2.25	3.67	1.42	3.17	
11/13/2010	46.58	7	284		2	2	1.33	1.67	2.17	2.83	2.33	2.17	3.67	1.42	3.25	
11/14/2010	41.18	7	284		2	2	1.33	1.67	2.42	2.83	2.33	2.08	3.67	1.42	3.33	
11/19/2010	62.24	7	284		0.92	0.92	1.33	1.67	2.5	2.58	2.33	1.83	3.67	1.42	3.25	
11/20/2010	62.96	7	284		0.92	0.92	1.33	1.67	2.5	2.75	2.42	1.83	3.67	1.42	3.25	
11/21/2010	62.06	7	284		0.92	0.92	1.33	1.67	2.42	2.75	2.2	1.83	3.67	1.42	3.25	
11/22/2010	61.34	7	284		0.92	0.92	1.33	1.42	1.42	2.83	2.33	1.83	3.67	1.42	3.25	
11/27/2010	48.02	7	284		1.67	2	1.33	1.58	2.33	2.83	2.42	1.92	3.75	1.42	3	
11/28/2010	37.4	6.5	236		1.92	2	1.33	1.58	2.42	2.83	2.42	1.92	3.75	1.42	2.92	
11/29/2010	35.6	5.75	174		1.92	2	1.33	1.67	2.58	2.83	2.42	1.92	3.75	1.42	2.83	
11/30/2010	33.8	5	123		1.92	2	1.42	1.67	2.58	2.58	2.42	1.92	3.75	1.42	2.75	
12/5/2010		6	193		1.5	2.08	1.5	1.67	3	2.92	2.5	1.92	3.75	1.33	2.33	
12/6/2010		6	193		1.5	2.08	1.5	1.67	3	2.92	2.5	1.92	3.75	1.33	2.33	
12/7/2010		6	193		1.5	2.08	1.5	1.67	3.08	2.92	2.5	1.92	3.75	1.33	2.25	
12/8/2010		5.75	174		1.5	2.08	1.5	1.67	3.33	2.92	2.5	1.92	3.75	1.33	2.08	
12/13/2010					1.17	1.67	1.5	1.75	3.67	2.92	2.5	1.83	3.75	1.42	2	
12/14/2010					1.42	1.67	1.58	1.75	3.67	2.92	2.5	1.83	3.75	1.42	2	
12/15/2010					1.42	1.92	1.67	1.67	3.67	2.92	2.5	1.83	3.75	1.42	2	
12/16/2010					1.67	1.75	1.67	1.67	3.5	2.92	2.5	1.92	3.75	1.42	2	
12/17/2010					1.25	1.25	1.58	1.17	2.92	1.17	0.75	0.58	0.42	1.08	0.58	
12/18/2010					1.33	1.17	1.5	1.25	2.75	1.17	0.75	0.58	0.42	1.08	0.58	
12/19/2010					1.42	0.83	1.25	1.33	2.58	1.17	0.75	0.58	0.42	1.08	0.67	
12/20/2010					1.5	0.67	0.92	1.33	2.5	1.17	0.75	0.58	0.42	1.08	0.67	
12/21/2010					2.42	1.92	2.08	1.42	2.5	2.83	2.33	1.92	3.5	1.42	2	

*** BM denotes Below Marker (Marker ~ 3 Feet)**

	AVG	AVG	AVG	TOTAL	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	
	45.20	6.99	288.98	13.14	2.36	1.84	1.32	1.51	1.76	2.96	2.12	2.72	2.99	1.29	2.27	

2010 TOTAL FLOW TO PONDS

288.98 gpm x 60 min/yr x 8760 hr/yr: **151886206.1**

Rainfall = 27154 gal/inch/acre 7.44 inches/yr X 121.2 acres X 27154 gal/inch/acre = gal/yr **43244591.47**

Pond Evaporation = 150gal/min, then 150 gal/min X 60 min/hr X 24 hr/day X 365 day/year = 78,840,000 gal/year **78840000**

Ciniza Refinery Sewer Test Form

Test Data for Main Line Upstream of Listed Manhole

C.B#1 to Sewage Basin M.H.#9,6,7,8,+8 to Sewage Basin

Unit & Line #:		C.B.#5, C.B.#4, C.B.#3, C.B#2, C.B#1
Test Fluid:	Water:	Water
Test Water Column (ft.):		10'
Test Duration (min.):		30 MIN
Manhole Number:		9,8,7,6 + 8 to Sewage Basin
Date:		12/1/10

Were all process sewer cup branches from the above manholes filled with water to verify that branch lines held level?

yes

Did all branch lines hold level?

yes

List any branch lines and location of branch lines that did not hold level (if any):

N/A

Test Witness Signatures:

Environmental:

Western Representative: Larry Jeff

UNDERGROUND PROCESS AND WASTEWATER LINES

TANK FARM Update 7/24/07

Re-test on or before due date	ID Number (Sewer Box or Catch Basin	Lateral Drains and/or Headers	Date Installed	Drawing Reference	Test Date	Pass/Fail/ Repair Information	Test Water Column (Feet)	Test Duration (Minutes)	Signature / Performed Test	Investigation Results
	CBZ-20 3073N 632W	CBZ-21 flows N under road to start of tank farm to CBZ-20	1957	EZ-80-509-EP	CBZ-20 - out of service					
12/1/2011	CBZ-19 3073N 935W	CBZ-19 flows W to CBZ-18	1957	EZ-80-509-EP, 95103-CC-104, & Z-01-100	11/17/06	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 453 drain flows S connects to Y from Tk 452 continues to Y from Tk 451 to CBZ-19	1957	EZ-80-509-EP, 95103-CC-104, & Z-01-100	11/17/06	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-18 3073N 1118W	CBZ-19 flows W to CBZ-18 (See EZ-80-09-514EP)	1957	EZ-80-509-EP, EZ-80-09-514EP, 95103-CC-104, & Z-01-100	11/17/2006	Pass	8 ft	60	Rmartinez/Pmartinez	CBZ-18 was water washed during inspection
12/1/2011		Tk 227 drain flows S to join Tk 228 drain SW to CBZ-18	1957	EZ-80-509-EP, EZ-80-09-514EP, & Z-01-100	11/17/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 342 flows S to join Tk 343 drain S to CBZ-18	1957	EZ-80-509-EP, & Z-01-100	11/17/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		CBZ-18 flows west to CBZ-17	1957		11/17/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-17 3073N 1260W	Tk 107 flows S to join Tk 108 drain onto S to CBZ-17	1957	EZ-80-09-514EP, & Z-01-100	11/20/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
		CBZ-28 flows NW to CBZ-17	1957	EZ-80-09-514EP	OOS				Out of Service	
	CBZ-28 2993.5N 1182.5W	Sump B-6 (Biolerhouse) flows N to CBZ-28		EZ-80-09-513EP, EZ-80-09-514EP & EZ-81-09-102EP	OOS				Out of Service	
12/1/2011	CBZ-16 3073N 1350W	CBZ-17 flows W to CBZ-16	1957	EZ-80-09-514EP, & Z-01-100	11/20/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 321 drain flows S to join Tk 232 drain onto CBZ-16	1957	EZ-80-09-514EP, & Z-01-100	11/20/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-15 3073N 1440W	CBZ-16 flows W to CBZ-15	1957	EZ-80-09-514EP, & Z-01-100	11/20/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 235 drain flows S to join Tk 106 onto CBZ-15	1957	EZ-80-09-514EP, & Z-01-100	11/20/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-14 3073N 1493W	CBZ-15 flows W to CBZ-14	1957	EZ-80-09-514EP, & Z-01-100	11/20/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
		CBZ-30 flows N to CBZ-14	1957	EZ-80-09-513EP & EZ-80-09-514EP	CBZ-14 Main sewer line 24" - unable to test - not authorized (12/06)					
12/1/2011	CBZ-1 3480N 380W	Start Tk 568 drain flows N and W to CBZ-1	1957	EZ-80-509-EP, 95103-CC-104, & Z-01-100	11/20/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011		T716 flows North to T568 to CBZ-1	2006		11/15/2006	Pass	6 ft	60	IMI Contractor	
12/1/2011		Tk 570 drain flows N to Y from Tk 569 & onto CBZ-1	1957	EZ-80-509-EP, 95103-CC-104, & Z-01-100	11/27/2006	Pass	6 ft	60	Rmartinez/Pmartinez	

UNDERGROUND PROCESS AND WASTEWATER LINES

TANK FARM Update 7/24/07

Re-test on or before due date	ID Number (Sewer Box or Catch Basin	Lateral Drains and/or Headers	Date Installed	Drawing Reference	Test Date	Pass/Fail/ Repair Information	Test Water Column (Feet)	Test Duration (Minutes)	Signature / Performed Test	Investigation Results
12/1/2011	CBZ-2 3480N 782W	CBZ-1 flows W to CBZ-2	1957	EZ-80-509-EP, 95103-CC-104, & Z-01-100	11/27/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 572 drain flows N to join Y from Tk 571drain to CBZ-2	1957	EZ-80-509-EP, 95103-CC-104, & Z-01-100	11/27/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		CBZ-2 flows west to CBZ-3	1957	EZ-80-509-EP, 95103-CC-104, & Z-01-100	11/27/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-3 3480N 931.5W	Tk 112 drain flows N to join Y from Tk 111 to CBZ-3	1957	EZ-80-509-EP, 95103-CC-104, & Z-01-100	11/28/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 226 drain flows into old box and S to CBZ-3	1957	EZ-80-508EP, EZ-80-509-EP, 95103-CC-104, & Z-01-100	11/28/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011	Underground "T" 3480N 1026W	CBZ-3 flows W to "T"	1957	EZ-80-09-509EP & Z-01-100	11/28/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 116 drain flows N to join Y from Tk. 115 drain to "T"	1957	EZ-80-09-509EP & Z-01-100	11/28/2006	Pass	8 ft	60	Rmartinez/Pmartinez	

UNDERGROUND PROCESS AND WASTEWATER LINES

TANK FARM Update 7/24/07

Re-test on or before due date	ID Number (Sewer Box or Catch Basin	Lateral Drains and/or Headers	Date Installed	Drawing Reference	Test Date	Pass/Fail/ Repair Information	Test Water Column (Feet)	Test Duration (Minutes)	Signature / Performed Test	Investigation Results
12/1/2011	CBZ-4 3480N 1233W	CBZ-3 through "T" to CBZ-4	1957	EZ-80-09-509EP, EZ-80-09-514EP, & Z-01-100	11/28/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 567 drain flows N to CBZ-4	???	EZ-80-09-514EP, & Z-01-100	11/28/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 225 drain flows S to CBZ-4	1957	EZ-80-09-514EP, EZ-80-09-515EP, & Z-01-100	11/28/2006	Pass	8 ft	60		
12/1/2011	CBZ-5 3480N 1325W	CBZ-4 flows W to CBZ-5	1957	EZ-80-09-514EP, & Z-01-100	11/28/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
		Tk 338 flows N to CBZ-5	1957	EZ-80-09-514EP, & Z-01-100	11/28/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
		Tk 339 flows S to CBZ-5	1957	EZ-80-09-514EP, EZ-80-09-515EP, & Z-01-100	11/28/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
	CBZ-6 3480N 1493W	CBZ-5 flows W to CBZ-6	1957	EZ-80-09-514EP, & Z-01-100	11/28/2006 CBZ-6 main sewer line - unable to test - not authorized					
		Drain fr conc floor for booster & charge pumps flows S to CBZ-6	1957	EZ-80-09-514EP, & Z-01-100	11/28/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
		CBZ-14 flows N to CBZ-6	1957	EZ-80-09-514EP, & Z-01-100	11/28/2006 CBZ-6 main sewer line - unable to test - not authorized					
	CBZ-26 3480N 1750W	CBZ-6 flows W to CBZ-26	1957	EZ-80-09-514EP, & Z-01-100	11/28/2006 CBZ-6 main sewer line - unable to test - not authorized					
12/1/2011		Tk 101 drain flows N to CBZ-26	1957	EZ-80-09-514EP, & Z-01-100	11/29/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 102 drain flows N to join Tk 101 drain onto CBZ-26	Prior 1995	EZ-80-514EP, 95103-CC-104, & Z-01-100	11/29/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		CBZ-13 flows S to CBZ-26	1957	EZ-80-09-514EP, EZ-80-09-515EP, & Z-01-100	11/29/2006	Pass	8 ft	60	Rmartinez/Pmartinez	11/26/06: Unable to test - main sewer line
12/1/2011	CBZ-27 3480N 1850W	CBZ-26 flows W to CBZ-27	1957	EZ-80-09-514EP, & Z-01-100	11/29/2006	Pass	8 ft	60	Rmartinez/Pmartinez	11/26/06: Not permitted to test.
	API Separator	CBZ-27 flows N NW to API Separator	1957	EZ-80-09-514EP & EZ-80-08-515EP	11/28/2006 Unable to test - not authorized					Now flows to New API Pit (2004)
12/1/2011	CBZ-7 3745N 370W	Catch Basin at RRR pumped up to CBZ-7		95103-CC-104	11/30/2006	Pass	6 ft	60	Rmartinez/Pmartinez	Sewer Box needs repair
12/1/2011		Tk 582 drain flows N to CBZ-7	1957	EZ-80-09-508EP & Z-01-100	11/30/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-8 3745N 675W	CBZ-7 flows W to CBZ-8	1957	EZ-80-09-508EP & Z-01-100	11/30/2006	Pass	6 ft	60	Rmartinez/Pmartinez	Sewer Box needs repair
12/1/2011		Tk 581 drain flows NW to CBZ-8	1957	EZ-80-09-508EP & Z-01-100	11/30/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 575 drain flows N to join Tk 577 drain to NE to CBZ-8	1957	EZ-80-09-508EP & Z-01-100	11/30/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-9 3985N 675W	CBZ-31 uses pump to pump to CBZ-9	1957	EZ-80-09-508EP & Z-01-100	11/30/2006	Pass	6 ft	60	Rmartinez/Pmartinez	

UNDERGROUND PROCESS AND WASTEWATER LINES

TANK FARM Update 7/24/07

Re-test on or before due date	ID Number (Sewer Box or Catch Basin	Lateral Drains and/or Headers	Date Installed	Drawing Reference	Test Date	Pass/Fail/ Repair Information	Test Water Column (Feet)	Test Duration (Minutes)	Signature / Performed Test	Investigation Results
12/1/2011	CBZ-31 3939N 460W	Drain N3850 W460 flow N to join "Y" from Tk 574 drain to CBZ-31	1957	EZ-80-09-508EP & Z-01-100	11/30/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011		CBZ-32 flows W to CBZ-31	1957	EZ-80-09-508EP & Z-01-100	11/30/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-32 3939N 425W	Tk 576 drain flows NW to CBZ-32	1957	EZ-80-09-508EP & Z-01-100	11/30/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-10 3985N 780W	CBZ-9 flows W to CBZ-10	1957	EZ-80-09-508EP & Z-01-100	12/1/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 579 drain flows W to CBZ-10	1957	EZ-80-09-508EP & Z-01-100	12/1/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-11 3985N 1136W	CBZ-10 flows W to CBZ-11	1957	EZ-80-09-508EP, EZ-80-09-515EP & Z-01-100	12/1/2006	Pass	9 ft	60	Rmartinez/Pmartinez	
12/1/2011		T583 flows north to CBZ-11			12/1/2006	Pass	9	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-12 3985N 1492W	CBZ-11 flows W to CBZ-12	1957	EZ-80-09-515EP & Z-01-100	12/1/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011		Tk 345,Tk344 & Tk 337 drains to CBZ-12	AFTER 1957	NO Drawing	12/1/2006	Pass	8 ft	60	Rmartinez/Pmartinez	

UNDERGROUND PROCESS AND WASTEWATER LINES

TANK FARM Update 7/24/07

Re-test on or before due date	ID Number (Sewer Box or Catch Basin	Lateral Drains and/or Headers	Date Installed	Drawing Reference	Test Date	Pass/Fail/ Repair Information	Test Water Column (Feet)	Test Duration (Minutes)	Signature / Performed Test	Investigation Results
12/1/2011	CBZ-13 3985N 1750W	CBZ-12 flows W to CBZ-13	1957	EZ-80-09-515EP & Z-01-100	12/1/2006	Pass	8 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-30 2931.17N 1485.50W	Mkt 4 drain N to Mkt 1drain to Mkt 2drain to Mkt 3 drain E & NE to CBZ-30	1957	EZ-80-09-513EP	11/13/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011		CBZ-29 N to CBZ-30	1957	EZ-80-09-513EP	11/9/2006	Pass	6 ft	60	Rmartinez/Pmartinez	
12/1/2011	CBZ-29 2737.82N 1485.50W	Drains fr old Fuel Oil Loading N2618.82 W1619.75 & N2649.94 W1595.0 flow NW to CBZ-29	1957	EZ-80-09-513EP	11/8/2006	Pass	6 ft	30	Rmartinez/Pmartinez	
12/1/2011		2781.17N drain pipe to CBZ-29	1957	EZ-80-09-513EP	11/8/2006	Pass	6 ft	30	Rmartinez/Pmartinez	I & E Shop now
12/1/2011		2756.17N drain pipe to CBZ-29	1957	EZ-80-09-513EP	11/8/2006	Pass	6 ft	30	Rmartinez/Pmartinez	I & E Shop now
12/1/2011		2731.17N drain pipe to CBZ-29	1957	EZ-80-09-513EP	11/8/2006	Pass	6 ft	30	Rmartinez/Pmartinez	I & E Shop now
12/1/2011		Truck Loading, 3 Area Drains flow to sump, then sump flows to CBZ-29	1957	EZ-80-09-513EP & EZ-09-250EP	11/13/2006	Pass	5 ft	60	Rmartinez/Pmartinez	
		4" Oily & Acid Drain from Lab Sinks & Floor to tie in between Truck Loading Sump and CBZ-29	1957	EZ-80-09-513EP, EZ-09-250EP & EZ-09-174	11-13-06: Unable to test - line plugged from Lab building to CBZ-29.					
12/1/2015	C.B. No. 5 ~3590N 112.35W	RRR Drains L S (Loading Spot) #13 to LS #12 to LS #11 to LS #10 to CB #5	1957	EZ-80-09-504EP EZ-80-09-505EP	12/1/2010	Pass	4	120	L. Jeff & A. Becenti	RRR
12/1/2015	C.B. No. 4	LS #9, LS #8, LS #7, & LS #6 "T" into C. B. No.5 to C. B. No.4	1957	EZ-80-09-505EP	12/1/2010	Pass	4	120	L. Jeff & A. Becenti	RRR
12/1/2015	C.B. No. 3	C.B. No.4 to C.B. No. 3	1957	EZ-80-09-505EP	12/1/2010	Pass	4	120	L. Jeff & A. Becenti	RRR
12/1/2015	C.B. No. 2 3870N 112.35W	LS#5, LS#4, & LS#3 "T" in C.B. No.3 to C.B. No.2	1957	EZ-80-09-505EP	12/1/2010	Pass	4	120	L. Jeff & A. Becenti	RRR
12/1/2015	C.B. No. 1	LS #2 & LS #1 "T" to C.B. No.2 to C.B. No. 1	1957	EZ-80-09-505EP	12/1/2010	Pass	4	120	L. Jeff & A. Becenti	RRR
	C.B. No.1 to Sewerage Basin		1957	EZ-80-09-506EP	Made area where MH No. 8 was to a large concrete containment, sewage basin taken out of service					
12/1/2015	MH No.9 3394N 162W	MH No. 10 3394N 210.32W connects to MH No.9	1957	EZ-80-09-504EP	12/1/2010	Pass	4	120	L. Jeff & A. Becenti	RRR
12/1/2015	MH No.6 3606N 162W	MH No 9 to MH No.6	1957	EZ-80-09-505EP	12/1/2010	Pass	4	120	L. Jeff & A. Becenti	RRR
12/1/2015	MH No.7 3739.58N 137.00W	MH No.6 to MH No. 7	1957	EZ-80-09-505EP	12/1/2010	Pass	4	120	L. Jeff & A. Becenti	RRR
	MH No.8 4089.58N 137.00W	MH No.7 N to MH No.8	1957	EZ-80-09-505EP	Made area where MH No. 8 was to a large concrete containment, sewage basin taken out of service					
	MH No.8 to Sewerage Basin		1957	EZ -80-09-505EP EZ-80-09-506EP	Made area where MH No. 8 was to a large concrete containment, sewage basin taken out of service					

MAJOR REFINERY ACTIVITIES or EVENTS

January

- Installed and placed into service a third benzene stripper after the NAPIS.

February

- Investigation Work Plan for the SWMU No. 14 Old API Separator (OAPIS) submitted for NMED and OCD
- Revised facility-wide Groundwater Monitoring Work Plan submitted to NMED and OCD

March

- Platformer regeneration turnaround

- Began annual dike repair by Envirotech to repair erosion on evaporation pond dikes

May

- NMED and OCD approval with modification received for the Process Design Report for the Wastewater Treatment Plant Work Plan (Alternative)

June

- Installation and startup of H2S quench system upstream of flare

July

- Conducted annual groundwater sampling

August

- Five year OCD soil sampling was conducted at the Central and NE landfarms

September

- Commenced construction of Equalization Tank (T-35)

- Ordered DGF and MPPE systems for new upgraded WWTP

October

- Gas Con unit underground sewer line testing completed.

November

- Purchased new tractor for tilling of OCD landfarms

December

- Completed installation of Tanks 27 and 28, and Equalization tank and ancillary equipment. Connected the storm water management system to the current wastewater treatment system

- Completed installation of low NOx burners on boilers B-102 and B-106

- T-115 and T-116 monitoring of soils for bioremediation of the Ultra Low Sulfur Diesel

- Nine storage tanks were fitted with operational level radar gauges in 2010

See Appendix F for a list of activities for 2010

SPILL EVENT INFORMATION

Date of Event	Time of Event	Product/Stream Name	Location of Event	Result of Event	Route Cause of Event	Initial Estimated Quantity (bbls)
1/11/2010	1150	Fuel Oil	T-706	Pump Seal Failure	Pump Seal Failure	1 bbl
1/13/10	1420	Alkylate	T-108	Tank Overflow	Inattentive	< 1 bbl
3/22/10	0930	VGO	RRR	VGO Spill	Hose Burst	< 5 bbls
3/23/10	2100	Gasoline	Truck Rack	Hose Rupture	Driver	<10 gal
3/25/10	1050	Fuel Oil	T-706	Rupture rundown line	Pipe Failure	< 1 1/2 bbl
4/7/10	1045	LCO		Overfill Rail Car	Inattentive	1 bbl
4/24/10	1100	Naphtha	NHT Charge Line	Rupture rundown line	Pipe Failure	740 gal
6/17/10	0300	Sour Naphtha	Hole in Suction Line	Equipment Failure	Equipment Failure	2 bbls
6/26/10		Benzene Stripper Overflow	Stripper to Containment Pad	Benzene Stripper Overflow		< 5 bbls
7/30/10	1745	Water/Oil Mixture	API	API Overflow	Heavy Rain	5 bbls
8/2/10	1800	Water/Oil Mixture	API	API Overflow	Heavy Rain	150 bbls
9/5/10	2300	Water/Oil Mixture	API	Benzene Stripper Overflow		2 bbls
9/18/10	0840	Resid	T-709	Pin Hole Leak	Equipment Failure	2 gal
11/8/10	1545	Water/Oil Mixture	Stripper #4 to Containment Pad	Benzene Stripper Overflow		20 bbls, <1 bbl to grnd
11/13/10	0900	Water/Oil Mixture	Stripper #4 to Containment Pad	Benzene Stripper Overflow		20 bbls, <1 bbl to grnd
11/17/10	0945	Crude Oil	T-102	Bad Seal	Bad Pump Seal	2 bbls
11/25/10	0700	Water/Oil Mixture	Stripper to Containment Pad	Stripper Froze	Freeze	50 gal
11/27/10	1415	Water/Oil Mixture	Stripper to Containment Pad	Stripper Froze	Freeze	20 bbls, <1 bbl to grnd
12/16/10	0820	Fuel Oil	T-706	Spill to Ground	Sample Port Open	2 bbls

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 01/12/2010

NOTE ANY FINDINGS: Minor dike erosion found on sides of several cells.

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 01/21/2010

NOTE ANY FINDINGS: Minor dike erosion found on sides of several cells.

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 02/09/2010

NOTE ANY FINDINGS: Minor dike erosion found on sides of several cells.

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 02/23/2010

NOTE ANY FINDINGS: Minor dike erosion found on sides of several cells.

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 3/10/2010

NOTE ANY FINDINGS: Minor dike erosion found on sides of several cells.

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 03/24/2010

NOTE ANY FINDINGS: Dike erosion found on sides of several cells.

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 04/08/2010

NOTE ANY FINDINGS: Dike erosion found on sides of several cells.

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 04/19/2010

NOTE ANY FINDINGS: Dike erosion found on sides of several cells.
Contractor working on dike area around west end of Pond #9

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 05/10/2010

NOTE ANY FINDINGS: Dike erosion found on sides of several cells.

Contractor completed working on dike area around west end of Pond #9

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 05/21/2010

NOTE ANY FINDINGS: Dike erosion found on sides of several cells.

Contractor completed working on dike area around west end of Pond #9

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 06/10/2010

NOTE ANY FINDINGS: No Issues found

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 06/17/2010

NOTE ANY FINDINGS: No Issues found

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 07/14/2010

NOTE ANY FINDINGS: No Issues found at time of inspection

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 07/22/2010

NOTE ANY FINDINGS: No Issues found

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 08/06/2010

NOTE ANY FINDINGS: No Issues found during inspection

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 08/17/2010

NOTE ANY FINDINGS: No Issues found

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 09/09/2010

NOTE ANY FINDINGS: No Issues found during inspection

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 09/21/2010

NOTE ANY FINDINGS: No Issues found

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 10/12/2010

NOTE ANY FINDINGS: No Issues found at time of inspection

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 10/26/2010

NOTE ANY FINDINGS: No Issues during inspection

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 11/04/2010

NOTE ANY FINDINGS: No Issues found

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 11/18/2010

NOTE ANY FINDINGS: No Issues

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 12/08/2010

NOTE ANY FINDINGS: No Issues found at time of inspection

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

WESTERN REFINING
OCD DISCHARGE PERMIT (GW-032)
BI-MONTHLY PERIMETER INSPECTION

Instructions: Inspection shall be conducted on a bimonthly basis or as needed in accordance with OCD Discharge Permit (GW-032)(Section #20)(Revision of: March 12,2008).The inspection is to focus on hydrocarbon staining or any release that could potentially result in contamination leaving the property boundaries.

DATE OF INSPECTION: 12/16/2010

NOTE ANY FINDINGS: No Issues found during inspection

Print Name / Title:: Beck Larsen / Environmental Engineer

Signature of Inspector:

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, March 12, 2010

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-0227
FAX (505) 722-0210

RE: Land Farms

Order No.: 1002391

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 2/19/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Background
Lab Order:	1002391	**Collection Date:**	2/17/2010 9:00:00 AM
Project:	Land Farms	**Date Received:**	2/19/2010
Lab ID:	1002391-01	**Matrix:**	SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 504.1 MODIFIED: EDB						Analyst: **LRW**
1,2-Dibromoethane	ND	0.10		µg/Kg	1	3/1/2010 1:41:02 PM
Surr: 1,2,3-Trichloropropane	105	56.9-128		%REC	1	3/1/2010 1:41:02 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/23/2010 2:21:23 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/23/2010 2:21:23 PM
Surr: DNOP	88.6	61.7-135		%REC	1	2/23/2010 2:21:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2010 2:22:59 PM
Surr: BFB	92.2	65.9-118		%REC	1	2/25/2010 2:22:59 PM
EPA METHOD 300.0: ANIONS						Analyst: **TAF**
Fluoride	3.3	1.5		mg/Kg	5	2/20/2010 11:15:16 AM
Chloride	ND	7.5		mg/Kg	5	2/20/2010 11:15:16 AM
Nitrogen, Nitrate (As N)	2.2	1.5		mg/Kg	5	2/20/2010 11:15:16 AM
Sulfate	18	7.5		mg/Kg	5	2/20/2010 11:15:16 AM
EPA METHOD 7471: MERCURY						Analyst: **SNV**
Mercury	ND	0.033		mg/Kg	1	3/3/2010 1:02:57 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **RAGS**
Arsenic	ND	13		mg/Kg	5	3/1/2010 5:14:41 PM
Barium	310	1.0		mg/Kg	10	3/1/2010 5:45:12 PM
Cadmium	ND	0.50		mg/Kg	5	3/1/2010 5:14:41 PM
Chromium	8.0	1.5		mg/Kg	5	3/1/2010 5:14:41 PM
Copper	4.0	1.5		mg/Kg	5	3/1/2010 5:14:41 PM
Selenium	ND	13		mg/Kg	5	3/1/2010 5:14:41 PM
Silver	ND	1.3		mg/Kg	5	3/1/2010 5:14:41 PM
Uranium	ND	25		mg/Kg	5	3/3/2010 9:42:07 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	2/26/2010 11:54:43 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
2-Methylphenol	ND	0.50		mg/Kg	1	2/26/2010 11:54:43 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
4-Nitrophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Background
Lab Order:	1002391	**Collection Date:**	2/17/2010 9:00:00 AM
Project:	Land Farms	**Date Received:**	2/19/2010
Lab ID:	1002391-01	**Matrix:**	SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: LBJ
Pentachlorophenol	ND	0.40		mg/Kg	1	2/26/2010 11:54:43 AM
Phenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	2/26/2010 11:54:43 AM
Surr: 2,4,6-Tribromophenol	78.3	28.4-132		%REC	1	2/26/2010 11:54:43 AM
Surr: 2-Fluorobiphenyl	83.0	37.4-123		%REC	1	2/26/2010 11:54:43 AM
Surr: 2-Fluorophenol	79.5	28.6-110		%REC	1	2/26/2010 11:54:43 AM
Surr: 4-Terphenyl-d14	71.7	29.2-111		%REC	1	2/26/2010 11:54:43 AM
Surr: Nitrobenzene-d5	80.9	33.8-126		%REC	1	2/26/2010 11:54:43 AM
Surr: Phenol-d5	75.8	35.3-110		%REC	1	2/26/2010 11:54:43 AM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Toluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Naphthalene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	2/22/2010 12:46:03 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	2/22/2010 12:46:03 PM
Acetone	ND	0.75		mg/Kg	1	2/22/2010 12:46:03 PM
Bromobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromoform	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Bromomethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
2-Butanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Carbon disulfide	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Chlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Chloroethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Chloroform	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Chloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Dibromomethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Background
Lab Order:	1002391	**Collection Date:**	2/17/2010 9:00:00 AM
Project:	Land Farms	**Date Received:**	2/19/2010
Lab ID:	1002391-01	**Matrix:**	SOILL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
2-Hexanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	2/22/2010 12:46:03 PM
Methylene chloride	ND	0.15		mg/Kg	1	2/22/2010 12:46:03 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Styrene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Vinyl chloride	ND	0.050		mg/Kg	1	2/22/2010 12:46:03 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/22/2010 12:46:03 PM
Surr: 1,2-Dichloroethane-d4	92.2	59.5-119		%REC	1	2/22/2010 12:46:03 PM
Surr: 4-Bromofluorobenzene	97.0	57.9-141		%REC	1	2/22/2010 12:46:03 PM
Surr: Dibromofluoromethane	99.7	65.4-122		%REC	1	2/22/2010 12:46:03 PM
Surr: Toluene-d8	91.0	81.1-112		%REC	1	2/22/2010 12:46:03 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	2/23/2010

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

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LABORATORY ANALYTICAL REPORT

Client:	Hall Environmental	**Report Date:**	03/12/10
Project:	1002391	**Collection Date:**	02/17/10 09:00
Lab ID:	C10020722-001	**DateReceived:**	02/23/10
Client Sample ID:	Background	**Matrix:**	Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
NON-METALS							
Cyanide, Total	ND	mg/kg		0.50		SW9012	03/01/10 13:05 / eli-b
RADIONUCLIDES - TOTAL							
Radium 226	1.5	pCi/g-dry				E903.0	03/10/10 13:09 / trs
Radium 226 precision (±)	0.2	pCi/g-dry				E903.0	03/10/10 13:09 / trs
Radium 226 MDC	0.06	pCi/g-dry				E903.0	03/10/10 13:09 / trs
Radium 228	1.1	pCi/g-dry				RA-05	03/05/10 11:20 / plj
Radium 228 precision (±)	0.4	pCi/g-dry				RA-05	03/05/10 11:20 / plj
Radium 228 MDC	0.6	pCi/g-dry				RA-05	03/05/10 11:20 / plj

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Hall Environmental
Project: 1002391

Report Date: 03/12/10
Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: 25377
Sample ID: C10020722-001AMS	Sample Matrix Spike				Run: G542M_100226C				03/10/10 13:09
Radium 226	9.3	pCi/g-dry		104	70	130			
Sample ID: C10020722-001AMSD	Sample Matrix Spike Duplicate				Run: G542M_100226C				03/10/10 13:09
Radium 226	9.1	pCi/g-dry		103	70	130	1.9	22.1	
Sample ID: LCS-25377	Laboratory Control Sample				Run: G542M_100226C				03/10/10 13:09
Radium 226	1.5	pCi/g-dry		98	70	130			
Sample ID: MB-25377	Method Blank				Run: G542M_100226C				03/10/10 13:09
Radium 226	6E-05	pCi/g-dry							U
Radium 226 precision (±)	0.0002	pCi/g-dry							
Radium 226 MDC	0.0003	pCi/g-dry							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

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QA/QC Summary Report

Client: Hall Environmental
Project: 1002391

Report Date: 03/12/10
Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05									Batch: 25377
Sample ID: LCS-25377	Laboratory Control Sample				Run: TENNELEC-3_100226C				03/05/10 11:20
Radium 228	1.6	pCi/g-dry		107	70	130			
Sample ID: MB-25377	Method Blank				Run: TENNELEC-3_100226C				03/05/10 11:20
Radium 228	0.005	pCi/g-dry							
Radium 228 precision (±)	0.002	pCi/g-dry							
Radium 228 MDC	0.003	pCi/g-dry							
Sample ID: C10020722-001AMS	Sample Matrix Spike				Run: TENNELEC-3_100226C				03/05/10 11:20
Radium 228	9.0	pCi/g-dry		110	70	130			
Sample ID: C10020722-001AMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_100226C				03/05/10 11:20
Radium 228	9.0	pCi/g-dry		107	70	130	0.5	32.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Hall Environmental
Project: 1002391

Report Date: 03/12/10
Work Order: C10020722

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW9012									Batch: B_44783
Sample ID: LCS-44783	Laboratory Control Sample				Run: SUB-B143898				03/01/10 12:30
Cyanide, Total	4.6	mg/kg	0.50	92	60	140			
Sample ID: MB-44783	Method Blank				Run: SUB-B143898				03/01/10 12:35
Cyanide, Total	ND	mg/kg	0.5						
Sample ID: C10020722-001B	Sample Matrix Spike				Run: SUB-B143898				03/01/10 13:06
Cyanide, Total	4.7	mg/kg	0.50	94	50	150			
Sample ID: C10020722-001B	Sample Matrix Spike Duplicate				Run: SUB-B143898				03/01/10 13:16
Cyanide, Total	3.5	mg/kg	0.50	71	50	150	28	30	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Land Farms
Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-21439		*MBLK*				Batch ID:	**21439**	Analysis Date:		2/20/2010 10:40:27 AM	
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-21439		*LCS*				Batch ID:	**21439**	Analysis Date:		2/20/2010 10:57:52 AM	
Fluoride	1.551	mg/Kg	0.30	1.5	0	103	90	110			
Chloride	14.08	mg/Kg	1.5	15	0	93.9	90	110			
Nitrogen, Nitrate (As N)	7.248	mg/Kg	0.30	7.5	0	96.6	90	110			
Sulfate	28.92	mg/Kg	1.5	30	0	96.4	90	110			
Method: EPA Method 418.1: TPH											
Sample ID: MB-21464		*MBLK*				Batch ID:	**21464**	Analysis Date:		2/23/2010	
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-21464		*LCS*				Batch ID:	**21464**	Analysis Date:		2/23/2010	
Petroleum Hydrocarbons, TR	100.7	mg/Kg	20	100	0	101	82	114			
Sample ID: LCSD-21464		*LCSD*				Batch ID:	**21464**	Analysis Date:		2/23/2010	
Petroleum Hydrocarbons, TR	104.8	mg/Kg	20	100	0	105	82	114			
Method: EPA Method 504.1 Modified: EDB											
Sample ID: 1002391-01AMSD		*MSD*				Batch ID:	**21511**	Analysis Date:		3/1/2010 2:06:19 PM	
1,2-Dibromoethane	1.055	µg/Kg	0.10	1	0	106	65.8	127	1.78	20	
Sample ID: MB-21511		*MBLK*				Batch ID:	**21511**	Analysis Date:		3/1/2010 1:03:11 PM	
1,2-Dibromoethane	ND	µg/Kg	0.10								
Sample ID: LCS-21511		*LCS*				Batch ID:	**21511**	Analysis Date:		3/1/2010 1:15:50 PM	
1,2-Dibromoethane	0.9170	µg/Kg	0.10	1	0	91.7	70	130			
Sample ID: LCSD-21511		*LCSD*				Batch ID:	**21511**	Analysis Date:		3/1/2010 1:28:29 PM	
1,2-Dibromoethane	1.001	µg/Kg	0.10	1	0	100	70	130	8.76	20	
Sample ID: 1002391-01AMS		*MS*				Batch ID:	**21511**	Analysis Date:		3/1/2010 1:53:40 PM	
1,2-Dibromoethane	1.074	µg/Kg	0.10	1	0	107	65.8	127			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-21442		*MBLK*				Batch ID:	**21442**	Analysis Date:		2/23/2010 7:40:12 AM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-21442		*LCS*				Batch ID:	**21442**	Analysis Date:		2/23/2010 8:16:03 AM	
Diesel Range Organics (DRO)	43.20	mg/Kg	10	50	0	86.4	64.6	116			
Sample ID: LCSD-21442		*LCSD*				Batch ID:	**21442**	Analysis Date:		2/23/2010 8:51:46 AM	
Diesel Range Organics (DRO)	41.16	mg/Kg	10	50	0	82.3	64.6	116	4.82	17.4	

Qualifiers:

B	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Land Farms **Work Order:** 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-21434		*MBLK*				Batch ID:	**21434**	Analysis Date:	2/25/2010 8:57:06 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**21434**	Analysis Date:	2/25/2010 8:26:49 PM		
Gasoline Range Organics (GRO)	27.14	mg/Kg	5.0	25	1.96	101	77.7	135			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Land Farms
Work Order: 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: mb-21434		*MBLK*				Batch ID:	**21434**	Analysis Date:	2/22/2010 3:07:55 PM		
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050								
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050								
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050								
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050								
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050								
Naphthalene	ND	mg/Kg	0.10								
1-Methylnaphthalene	ND	mg/Kg	0.20								
2-Methylnaphthalene	ND	mg/Kg	0.20								
Acetone	ND	mg/Kg	0.75								
Bromobenzene	ND	mg/Kg	0.050								
Bromodichloromethane	ND	mg/Kg	0.050								
Bromoform	ND	mg/Kg	0.050								
Bromomethane	ND	mg/Kg	0.10								
2-Butanone	ND	mg/Kg	0.50								
Carbon disulfide	ND	mg/Kg	0.50								
Carbon tetrachloride	ND	mg/Kg	0.10								
[illegible]obenzene	ND	mg/Kg	0.050								
Chloroethane	ND	mg/Kg	0.10								
Chloroform	ND	mg/Kg	0.050								
Chloromethane	ND	mg/Kg	0.050								
2-Chlorotoluene	ND	mg/Kg	0.050								
4-Chlorotoluene	ND	mg/Kg	0.050								
cis-1,2-DCE	ND	mg/Kg	0.050								
cis-1,3-Dichloropropene	ND	mg/Kg	0.050								
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10								
Dibromochloromethane	ND	mg/Kg	0.050								
Dibromomethane	ND	mg/Kg	0.10								
1,2-Dichlorobenzene	ND	mg/Kg	0.050								
1,3-Dichlorobenzene	ND	mg/Kg	0.050								
1,4-Dichlorobenzene	ND	mg/Kg	0.050								
Dichlorodifluoromethane	ND	mg/Kg	0.050								
1,1-Dichloroethane	ND	mg/Kg	0.10								
1,1-Dichloroethene	ND	mg/Kg	0.050								
1,2-Dichloropropane	ND	mg/Kg	0.050								
1,3-Dichloropropane	ND	mg/Kg	0.050								
2,2-Dichloropropane	ND	mg/Kg	0.10								
1,1-Dichloropropene	ND	mg/Kg	0.10								
Hexachlorobutadiene	ND	mg/Kg	0.10								
2-Hexanone	ND	mg/Kg	0.50								
Isopropylbenzene	ND	mg/Kg	0.050								
4-Isopropyltoluene	ND	mg/Kg	0.050								

[illegible]ifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Land Farms **Work Order:** 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: mb-21434		*MBLK*				Batch ID:	**21434**	Analysis Date:	2/22/2010 3:07:55 PM		
4-Methyl-2-pentanone	ND	mg/Kg	0.50								
Methylene chloride	ND	mg/Kg	0.15								
n-Butylbenzene	ND	mg/Kg	0.050								
n-Propylbenzene	ND	mg/Kg	0.050								
sec-Butylbenzene	ND	mg/Kg	0.050								
Styrene	ND	mg/Kg	0.050								
tert-Butylbenzene	ND	mg/Kg	0.050								
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050								
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050								
Tetrachloroethene (PCE)	ND	mg/Kg	0.050								
trans-1,2-DCE	ND	mg/Kg	0.050								
trans-1,3-Dichloropropene	ND	mg/Kg	0.050								
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10								
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050								
1,1,1-Trichloroethane	ND	mg/Kg	0.050								
1,1,2-Trichloroethane	ND	mg/Kg	0.050								
Trichloroethene (TCE)	ND	mg/Kg	0.050								
Trichlorofluoromethane	ND	mg/Kg	0.050								
1,2,3-Trichloropropane	ND	mg/Kg	0.10								
Vinyl chloride	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: lcs-21434		*LCS*				Batch ID:	**21434**	Analysis Date:	2/22/2010 2:39:35 PM		
Benzene	1.008	mg/Kg	0.050	1	0	101	84.5	114			
Toluene	1.083	mg/Kg	0.050	1	0	108	85.4	109			
Chlorobenzene	1.103	mg/Kg	0.050	1	0.0058	110	86.8	110			
1,1-Dichloroethene	1.088	mg/Kg	0.050	1	0	109	74.4	129			
Trichloroethene (TCE)	1.045	mg/Kg	0.050	1	0	104	77.8	114			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Land Farms **Work Order:** 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: **EPA Method 8270C: Semivolatiles**											
Sample ID: 1002391-01Amsd		*MSD*				Batch ID:	**21451**	Analysis Date:		2/26/2010 12:53:40 PM	
4-Chloro-3-methylphenol	2.568	mg/Kg	0.50	3.33	0	77.1	14.6	154	4.54	30	
2-Chlorophenol	2.363	mg/Kg	0.20	3.33	0	71.0	13.3	149	3.37	30	
4-Nitrophenol	2.699	mg/Kg	0.20	3.33	0	81.0	13.1	150	0.185	0	
Pentachlorophenol	2.549	mg/Kg	0.40	3.33	0	76.5	20.1	139	7.40	30	
Phenol	2.509	mg/Kg	0.20	3.33	0	75.4	17.3	141	0.293	30	
Sample ID: mb-21451		*MBLK*				Batch ID:	**21451**	Analysis Date:		2/26/2010 10:54:22 AM	
4-Chloro-3-methylphenol	ND	mg/Kg	0.50								
2-Chlorophenol	ND	mg/Kg	0.20								
2,4-Dichlorophenol	ND	mg/Kg	0.40								
2,4-Dimethylphenol	ND	mg/Kg	0.30								
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50								
2,4-Dinitrophenol	ND	mg/Kg	0.40								
2-Methylphenol	ND	mg/Kg	0.50								
3+4-Methylphenol	ND	mg/Kg	0.20								
2-Nitrophenol	ND	mg/Kg	0.20								
4-Nitrophenol	ND	mg/Kg	0.20								
Pentachlorophenol	ND	mg/Kg	0.40								
Phenol	ND	mg/Kg	0.20								
2,4,5-Trichlorophenol	ND	mg/Kg	0.20								
2,4,6-Trichlorophenol	ND	mg/Kg	0.20								
Sample ID: lcs-21451		*LCS*				Batch ID:	**21451**	Analysis Date:		2/26/2010 1:23:08 PM	
4-Chloro-3-methylphenol	2.838	mg/Kg	0.50	3.33	0	85.2	40.1	96.6			
2-Chlorophenol	2.598	mg/Kg	0.20	3.33	0	78.0	32.2	94.6			
4-Nitrophenol	1.868	mg/Kg	0.20	3.33	0	56.1	18.1	122			
Pentachlorophenol	3.013	mg/Kg	0.40	3.33	0	90.5	37.5	98.8			
Phenol	1.660	mg/Kg	0.20	3.33	0	49.8	29	96			
Sample ID: 1002391-01Ams		*MS*				Batch ID:	**21451**	Analysis Date:		2/26/2010 12:24:15 PM	
4-Chloro-3-methylphenol	2.454	mg/Kg	0.50	3.33	0	73.7	14.6	154			
2-Chlorophenol	2.444	mg/Kg	0.20	3.33	0	73.4	13.3	149			
4-Nitrophenol	2.704	mg/Kg	0.20	3.33	0	81.2	13.1	150			
Pentachlorophenol	2.745	mg/Kg	0.40	3.33	0	82.4	20.1	139			
Phenol	2.502	mg/Kg	0.20	3.33	0	75.1	17.3	141			
Method: **EPA Method 7471: Mercury**											
Sample ID: 1002391-01BMSD		*MSD*				Batch ID:	**21525**	Analysis Date:		3/3/2010 1:06:27 PM	
Mercury	0.1736	mg/Kg	0.033	0.164	0.0052	103	75	125	2.84	20	
Sample ID: MB-21525		*MBLK*				Batch ID:	**21525**	Analysis Date:		3/3/2010 12:59:28 PM	
Mercury	ND	mg/Kg	0.033								
Sample ID: LCS-21525		*LCS*				Batch ID:	**21525**	Analysis Date:		3/3/2010 1:01:12 PM	
Mercury	0.1676	mg/Kg	0.033	0.167	0.0006	100	80	120			
Sample ID: 1002391-01BMS		*MS*				Batch ID:	**21525**	Analysis Date:		3/3/2010 1:04:42 PM	
Mercury	0.1786	mg/Kg	0.033	0.166	0.0052	104	75	125			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Land Farms **Work Order:** 1002391

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Soil Metals											
Sample ID: 1002391-01BMSD		*MSD*				Batch ID:	**21509**	Analysis Date:		3/1/2010 5:19:37 PM	
Arsenic	20.63	mg/Kg	13	23.91	0	86.3	75	125	0.235	20	
Cadmium	23.92	mg/Kg	0.50	23.91	0	100	75	125	4.51	20	
Chromium	30.60	mg/Kg	1.5	23.91	8.003	94.5	75	125	4.03	20	
Copper	26.43	mg/Kg	1.5	23.91	3.95	94.0	75	125	4.76	20	
Selenium	20.23	mg/Kg	13	23.91	0	84.6	75	125	12.2	20	
Silver	23.72	mg/Kg	1.3	23.91	0	99.2	75	125	3.85	20	
Sample ID: MB-21509		*MBLK*				Batch ID:	**21509**	Analysis Date:		3/1/2010 5:00:24 PM	
Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Chromium	ND	mg/Kg	0.30								
Copper	ND	mg/Kg	0.30								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Sample ID: MB-21509		*MBLK*				Batch ID:	**21509**	Analysis Date:		3/3/2010 9:37:19 AM	
Uranium	ND	mg/Kg	5.0								
Sample ID: LCS-21509		*LCS*				Batch ID:	**21509**	Analysis Date:		3/1/2010 5:02:51 PM	
Arsenic	24.39	mg/Kg	2.5	25	0	97.6	80	120			
Barium	24.70	mg/Kg	0.10	25	0	98.8	80	120			
Cadmium	24.02	mg/Kg	0.10	25	0	96.1	80	120			
Chromium	24.71	mg/Kg	0.30	25	0	98.8	80	120			
Copper	25.63	mg/Kg	0.30	25	0.1818	102	80	120			
Selenium	24.66	mg/Kg	2.5	25	0	98.6	80	120			
Silver	24.85	mg/Kg	0.25	25	0.1556	98.8	80	120			
Sample ID: LCS-21509		*LCS*				Batch ID:	**21509**	Analysis Date:		3/3/2010 9:39:43 AM	
Uranium	28.97	mg/Kg	5.0	25	0	116	80	120			
Sample ID: 1002391-01BMS		*MS*				Batch ID:	**21509**	Analysis Date:		3/1/2010 5:17:10 PM	
Arsenic	20.67	mg/Kg	13	24.3	0	85.1	75	125			
Cadmium	22.87	mg/Kg	0.50	24.3	0	94.1	75	125			
Chromium	29.39	mg/Kg	1.5	24.3	8.003	88.0	75	125			
Copper	25.20	mg/Kg	1.5	24.3	3.95	87.5	75	125			
Selenium	17.90	mg/Kg	13	24.3	0	73.7	75	125			S
Silver	22.82	mg/Kg	1.3	24.3	0	93.9	75	125			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU | Date Received: 2/19/2010

Work Order Number 1002391 | Received by: TLS

Checklist completed by: _____ 2/19/10 | Sample ID labels checked by: _____

Signature | Date | Initials

Matrix: | Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace? No VOA vials submitted ☑		Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	<2 >12 unless noted below.
Container/Temp Blank temperature?	**5.1°**	<6° C Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: per CoC analyze for Ag /AT 2/19/10

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN REFINING

Address: GALLUP

Phone #: 505 722 3833

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: LAND FARMS

Project #: BACKGROUND

Project Manager: G. RAJEN

Sampler:

On Ice: ☑ Yes ☐ No

Sample Temperature: 5°

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

2/19/10

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1002390
2/17	9:00AM	BACKGROUND	1 8oz	NONE	-1
			1 8oz	NONE	-1
			1 8oz	NONE	-1

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F, Cl, NO3, NO2, PO4, SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	As Ba Cd Cr Pb Se Hg 5 Cu 6010/7471	PHENOLS 420.3	Radium 226 228 901.1	GAN IDE 9014B	Air Bubbles (Y or N)
X		X	X				X								
				X	X				X		X	X			
													X		

Date:	Time:	Relinquished by:	Received by:
2/18	9:00	ALVIN DORSEY	2/19/10 8:45
Date:	Time:	Relinquished by:	Received by:

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, September 22, 2010

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX: (505) 722-0210

RE: OCD Landfarms Semi-annual Sampling

Order No.: 1008A29

Dear Ed Riege:

Hall Environmental Analysis Laboratory, Inc. received 32 sample(s) on 8/25/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-01-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 12:46:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/27/2010 5:45:34 PM
Toluene	ND	0.050		mg/Kg	1	8/27/2010 5:45:34 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/27/2010 5:45:34 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/27/2010 5:45:34 PM
Surr: 4-Bromofluorobenzene	120	88.9-151		%REC	1	8/27/2010 5:45:34 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	130	7.5		mg/Kg	5	8/28/2010 7:30:05 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	58	20		mg/Kg	1	8/30/2010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-02-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 3:20:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/27/2010 6:15:49 PM
Toluene	ND	0.050		mg/Kg	1	8/27/2010 6:15:49 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/27/2010 6:15:49 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/27/2010 6:15:49 PM
Surr: 4-Bromofluorobenzene	118	88.9-151		%REC	1	8/27/2010 6:15:49 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	180	15		mg/Kg	10	8/28/2010 8:22:19 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-03-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 3:25:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/27/2010 6:45:59 PM
Toluene	ND	0.050		mg/Kg	1	8/27/2010 6:45:59 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/27/2010 6:45:59 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/27/2010 6:45:59 PM
Surr: 4-Bromofluorobenzene	112	88.9-151		%REC	1	8/27/2010 6:45:59 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	190	30		mg/Kg	20	8/28/2010 8:39:43 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-04-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 1:00:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/27/2010 7:16:12 PM
Toluene	ND	0.050		mg/Kg	1	8/27/2010 7:16:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/27/2010 7:16:12 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/27/2010 7:16:12 PM
Surr: 4-Bromofluorobenzene	116	88.9-151		%REC	1	8/27/2010 7:16:12 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	160	7.5		mg/Kg	5	8/28/2010 8:57:08 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	54	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-05-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 3:05:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 12:19:00 AM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 12:19:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 12:19:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 12:19:00 AM
Surr: 4-Bromofluorobenzene	100	88.9-151		%REC	1	8/28/2010 12:19:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	230	30		mg/Kg	20	8/28/2010 9:14:33 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-06-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 3:10:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 12:49:12 AM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 12:49:12 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 12:49:12 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 12:49:12 AM
Surr: 4-Bromofluorobenzene	121	88.9-151		%REC	1	8/28/2010 12:49:12 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	250	30		mg/Kg	20	8/28/2010 9:31:57 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-07-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 1:15:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 1:19:35 AM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 1:19:35 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 1:19:35 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 1:19:35 AM
Surr: 4-Bromofluorobenzene	116	88.9-151		%REC	1	8/28/2010 1:19:35 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	160	7.5		mg/Kg	5	9/12/2010 1:12:55 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	630	400		mg/Kg	20	8/30/2010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-08-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 2:50:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 1:49:41 AM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 1:49:41 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 1:49:41 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 1:49:41 AM
Surr: 4-Bromofluorobenzene	108	88.9-151		%REC	1	8/28/2010 1:49:41 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	180	7.5		mg/Kg	5	8/28/2010 10:41:36 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-09-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 2:55:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 2:19:47 AM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 2:19:47 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 2:19:47 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 2:19:47 AM
Surr: 4-Bromofluorobenzene	108	88.9-151		%REC	1	8/28/2010 2:19:47 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	270	7.5		mg/Kg	5	8/28/2010 10:59:00 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-10-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 1:25:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/30/2010 3:59:31 PM
Toluene	ND	0.050		mg/Kg	1	8/30/2010 3:59:31 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/30/2010 3:59:31 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/30/2010 3:59:31 PM
Surr: 4-Bromofluorobenzene	119	88.9-151		%REC	1	8/30/2010 3:59:31 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	250	15		mg/Kg	10	8/28/2010 11:16:25 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	9000	1000		mg/Kg	50	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-11-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 2:35:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-11	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 3:20:11 AM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 3:20:11 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 3:20:11 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 3:20:11 AM
Surr: 4-Bromofluorobenzene	117	88.9-151		%REC	1	8/28/2010 3:20:11 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	340	15		mg/Kg	10	9/12/2010 2:05:10 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD-12-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 2:40:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 3:50:26 AM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 3:50:26 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 3:50:26 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 3:50:26 AM
Surr: 4-Bromofluorobenzene	108	88.9-151		%REC	1	8/28/2010 3:50:26 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	570	30		mg/Kg	20	9/12/2010 2:22:34 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-01-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 11:40:00 AM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-13	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 4:20:33 AM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 4:20:33 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 4:20:33 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 4:20:33 AM
Surr: 4-Bromofluorobenzene	109	88.9-151		%REC	1	8/28/2010 4:20:33 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	88	30		mg/Kg	20	8/29/2010 1:00:52 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	160	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-02-82510
Lab Order:	1008A29	**Collection Date:**	8/25/2010 10:50:00 AM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-14	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 4:50:50 AM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 4:50:50 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 4:50:50 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 4:50:50 AM
Surr: 4-Bromofluorobenzene	114	88.9-151		%REC	1	8/28/2010 4:50:50 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	74	7.5		mg/Kg	5	8/29/2010 1:53:05 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	540	200		mg/Kg	10	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-03-82510
Lab Order:	1008A29	**Collection Date:**	8/25/2010 10:55:00 AM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-15	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 4:46:53 PM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 4:46:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 4:46:53 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 4:46:53 PM
Surr: 4-Bromofluorobenzene	110	88.9-151		%REC	1	8/28/2010 4:46:53 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	270	15		mg/Kg	10	9/12/2010 2:39:58 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-04-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 11:52:00 AM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-16	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 5:17:13 PM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 5:17:13 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 5:17:13 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 5:17:13 PM
Surr: 4-Bromofluorobenzene	92.2	88.9-151		%REC	1	8/28/2010 5:17:13 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	170	30		mg/Kg	20	8/29/2010 2:27:55 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	1200	100		mg/Kg	5	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-05-82510
Lab Order:	1008A29	**Collection Date:**	8/25/2010 11:15:00 AM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-17	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 5:47:32 PM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 5:47:32 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 5:47:32 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 5:47:32 PM
Surr: 4-Bromofluorobenzene	115	88.9-151		%REC	1	8/28/2010 5:47:32 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	100	30		mg/Kg	20	8/29/2010 2:45:20 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	780	200		mg/Kg	10	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-06-82510
Lab Order:	1008A29	**Collection Date:**	8/25/2010 11:20:00 AM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-18	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 6:17:48 PM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 6:17:48 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 6:17:48 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 6:17:48 PM
Surr: 4-Bromofluorobenzene	124	88.9-151		%REC	1	8/28/2010 6:17:48 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	260	30		mg/Kg	20	8/29/2010 3:02:45 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-07-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 12:08:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-19	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 6:48:00 PM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 6:48:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 6:48:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 6:48:00 PM
Surr: 4-Bromofluorobenzene	112	88.9-151		%REC	1	8/28/2010 6:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	66	30		mg/Kg	20	8/29/2010 3:20:10 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	110	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-08-82510
Lab Order:	1008A29	**Collection Date:**	8/25/2010 11:25:00 AM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-20	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 7:18:23 PM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 7:18:23 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 7:18:23 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 7:18:23 PM
Surr: 4-Bromofluorobenzene	120	88.9-151		%REC	1	8/28/2010 7:18:23 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	60	30		mg/Kg	20	8/29/2010 3:37:35 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	300	100		mg/Kg	5	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-09-82510
Lab Order:	1008A29	**Collection Date:**	8/25/2010 11:50:00 AM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-21	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 7:48:45 PM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 7:48:45 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 7:48:45 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 7:48:45 PM
Surr: 4-Bromofluorobenzene	142	88.9-151		%REC	1	8/28/2010 7:48:45 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	230	7.5		mg/Kg	5	8/31/2010 7:21:28 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-10-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 12:20:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-22	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/30/2010 1:27:40 PM
Toluene	ND	0.050		mg/Kg	1	8/30/2010 1:27:40 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/30/2010 1:27:40 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/30/2010 1:27:40 PM
Surr: 4-Bromofluorobenzene	96.8	88.9-151		%REC	1	8/30/2010 1:27:40 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	ND	30		mg/Kg	20	8/31/2010 7:38:52 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	160	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-11-82510
Lab Order:	1008A29	**Collection Date:**	8/25/2010 11:35:00 AM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-23	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 8:49:37 PM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 8:49:37 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 8:49:37 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 8:49:37 PM
Surr: 4-Bromofluorobenzene	118	88.9-151		%REC	1	8/28/2010 8:49:37 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	45	30		mg/Kg	20	8/31/2010 7:56:17 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD-12-82510
Lab Order:	1008A29	**Collection Date:**	8/25/2010 11:40:00 AM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-24	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/28/2010 9:19:56 PM
Toluene	ND	0.050		mg/Kg	1	8/28/2010 9:19:56 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/28/2010 9:19:56 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/28/2010 9:19:56 PM
Surr: 4-Bromofluorobenzene	117	88.9-151		%REC	1	8/28/2010 9:19:56 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	600	30		mg/Kg	20	9/12/2010 2:57:23 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BD-1-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-25	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/30/2010 1:58:01 PM
Toluene	ND	0.050		mg/Kg	1	8/30/2010 1:58:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/30/2010 1:58:01 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/30/2010 1:58:01 PM
Surr: 4-Bromofluorobenzene	98.4	88.9-151		%REC	1	8/30/2010 1:58:01 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	180	30		mg/Kg	20	8/31/2010 8:31:06 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	960	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BD-2-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-26	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/30/2010 3:29:17 PM
Toluene	ND	0.050		mg/Kg	1	8/30/2010 3:29:17 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/30/2010 3:29:17 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/30/2010 3:29:17 PM
Surr: 4-Bromofluorobenzene	104	88.9-151		%REC	1	8/30/2010 3:29:17 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	140	7.5		mg/Kg	5	8/31/2010 8:48:30 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	66	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	MS/MSD-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 12:08:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-27	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	8/29/2010 2:52:42 AM
Toluene	ND	0.050		mg/Kg	1	8/29/2010 2:52:42 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/29/2010 2:52:42 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/29/2010 2:52:42 AM
Surr: 4-Bromofluorobenzene	114	88.9-151		%REC	1	8/29/2010 2:52:42 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	70	30		mg/Kg	20	8/31/2010 9:05:55 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	140	20		mg/Kg	1	8/30/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	FB-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 3:58:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-28	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	8/31/2010 9:23:47 PM
Toluene	ND	1.0		µg/L	1	8/31/2010 9:23:47 PM
Ethylbenzene	ND	1.0		µg/L	1	8/31/2010 9:23:47 PM
Xylenes, Total	ND	2.0		µg/L	1	8/31/2010 9:23:47 PM
Surr: 4-Bromofluorobenzene	114	83.6-151		%REC	1	8/31/2010 9:23:47 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	EB-82410
Lab Order:	1008A29	**Collection Date:**	8/24/2010 4:00:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-29	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	8/31/2010 9:54:05 PM
Toluene	ND	1.0		µg/L	1	8/31/2010 9:54:05 PM
Ethylbenzene	ND	1.0		µg/L	1	8/31/2010 9:54:05 PM
Xylenes, Total	ND	2.0		µg/L	1	8/31/2010 9:54:05 PM
Surr: 4-Bromofluorobenzene	104	83.6-151		%REC	1	8/31/2010 9:54:05 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	FB-82510
Lab Order:	1008A29	**Collection Date:**	8/25/2010 12:50:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-30	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	8/31/2010 10:24:24 PM
Toluene	ND	1.0		µg/L	1	8/31/2010 10:24:24 PM
Ethylbenzene	ND	1.0		µg/L	1	8/31/2010 10:24:24 PM
Xylenes, Total	ND	2.0		µg/L	1	8/31/2010 10:24:24 PM
Surr: 4-Bromofluorobenzene	105	83.6-151		%REC	1	8/31/2010 10:24:24 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	EB-82510
Lab Order:	1008A29	**Collection Date:**	8/25/2010 12:55:00 PM
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-31	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	8/31/2010 10:54:46 PM
Toluene	ND	1.0		µg/L	1	8/31/2010 10:54:46 PM
Ethylbenzene	ND	1.0		µg/L	1	8/31/2010 10:54:46 PM
Xylenes, Total	ND	2.0		µg/L	1	8/31/2010 10:54:46 PM
Surr: 4-Bromofluorobenzene	113	83.6-151		%REC	1	8/31/2010 10:54:46 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Sep-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1008A29	**Collection Date:**	
Project:	OCD Landfarms Semi-annual Sampling	**Date Received:**	8/25/2010
Lab ID:	1008A29-32	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	8/31/2010 11:25:13 PM
Toluene	ND	1.0		µg/L	1	8/31/2010 11:25:13 PM
Ethylbenzene	ND	1.0		µg/L	1	8/31/2010 11:25:13 PM
Xylenes, Total	ND	2.0		µg/L	1	8/31/2010 11:25:13 PM
Surr: 4-Bromofluorobenzene	88.8	83.6-151		%REC	1	8/31/2010 11:25:13 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms Semi-annual Sampling **Work Order:** 1008A29

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1008A29-01AMSD		*MSD*				Batch ID:	**23573**	Analysis Date:		8/28/2010 8:04:54 PM	
Chloride	148.7	mg/Kg	7.5	15	129.6	127	53.9	146	0.979	20	
Sample ID: 1008A29-10AMSD		*MSD*				Batch ID:	**23573**	Analysis Date:		8/28/2010 11:51:14 PM	
Chloride	269.0	mg/Kg	15	15	254.9	94.2	53.9	146	0.921	20	
Sample ID: 1008A29-27AMSD		*MSD*				Batch ID:	**23589**	Analysis Date:		8/31/2010 10:15:33 AM	
Chloride	82.82	mg/Kg	30	15	70.19	84.2	53.9	146	1.35	20	
Sample ID: MB-23573		*MBLK*				Batch ID:	**23573**	Analysis Date:		8/28/2010 6:55:16 PM	
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-23573		*LCS*				Batch ID:	**23573**	Analysis Date:		8/28/2010 7:12:40 PM	
Chloride	14.24	mg/Kg	1.5	15	0	94.9	90	110			
Sample ID: LCS-23589		*LCS*				Batch ID:	**23589**	Analysis Date:		8/31/2010 3:17:47 AM	
Chloride	15.20	mg/Kg	1.5	15	0	101	90	110			
Sample ID: 1008A29-01AMS		*MS*				Batch ID:	**23573**	Analysis Date:		8/28/2010 7:47:29 PM	
Chloride	150.2	mg/Kg	7.5	15	129.6	137	53.9	146			
Sample ID: 1008A29-10AMS		*MS*				Batch ID:	**23573**	Analysis Date:		8/28/2010 11:33:50 PM	
Chloride	266.5	mg/Kg	15	15	254.9	77.8	53.9	146			
Sample ID: 1008A29-27AMS		*MS*				Batch ID:	**23589**	Analysis Date:		8/31/2010 9:58:08 AM	
Chloride	83.95	mg/Kg	30	15	70.19	91.7	53.9	146			
Method: EPA Method 418.1: TPH											
Sample ID: 1008A29-27AMSD		*MSD*				Batch ID:	**23568**	Analysis Date:			8/30/2010
Petroleum Hydrocarbons, TR	217.0	mg/Kg	20	100	135.5	81.5	82	114	7.67	20	S
Sample ID: MB-23567		*MBLK*				Batch ID:	**23567**	Analysis Date:			8/30/2010
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: MB-23568		*MBLK*				Batch ID:	**23568**	Analysis Date:			8/30/2010
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-23567		*LCS*				Batch ID:	**23567**	Analysis Date:			8/30/2010
Petroleum Hydrocarbons, TR	100.9	mg/Kg	20	100	0	101	86.8	116			
Sample ID: LCS-23568		*LCS*				Batch ID:	**23568**	Analysis Date:			8/30/2010
Petroleum Hydrocarbons, TR	94.98	mg/Kg	20	100	0	95.0	86.8	116			
Sample ID: LCSD-23567		*LCSD*				Batch ID:	**23567**	Analysis Date:			8/30/2010
Petroleum Hydrocarbons, TR	97.34	mg/Kg	20	100	0	97.3	86.8	116	3.59	16.2	
Sample ID: LCSD-23568		*LCSD*				Batch ID:	**23568**	Analysis Date:			8/30/2010
Petroleum Hydrocarbons, TR	94.98	mg/Kg	20	100	0	95.0	86.8	116	0	16.2	
Sample ID: 1008A29-27AMS		*MS*				Batch ID:	**23568**	Analysis Date:			8/30/2010
Petroleum Hydrocarbons, TR	234.3	mg/Kg	20	100	135.5	98.8	82	114			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms Semi-annual Sampling **Work Order:** 1008A29

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1008A29-01A MSD		*MSD*				Batch ID:	**23558**	Analysis Date:		8/27/2010 8:16:38 PM	
Benzene	1.085	mg/Kg	0.050	1	0.0113	107	67.2	113	4.30	14.3	
Toluene	1.083	mg/Kg	0.050	1	0	108	62.1	116	4.37	15.9	
Ethylbenzene	1.182	mg/Kg	0.050	1	0	118	67.9	127	5.07	14.4	
Xylenes, Total	3.537	mg/Kg	0.10	3	0	118	60.6	134	4.87	12.6	
Sample ID: 1008A29-27AMSD		*MSD*				Batch ID:	**23560**	Analysis Date:		8/28/2010 10:20:22 PM	
Benzene	0.9962	mg/Kg	0.050	1	0	99.6	67.2	113	17.4	14.3	R
Toluene	0.9849	mg/Kg	0.050	1	0	98.5	62.1	116	11.2	15.9	
Ethylbenzene	1.082	mg/Kg	0.050	1	0	108	67.9	127	10.8	14.4	
Xylenes, Total	3.221	mg/Kg	0.10	3	0	107	60.6	134	9.24	12.6	
Sample ID: MB-23558		*MBLK*				Batch ID:	**23558**	Analysis Date:		8/28/2010 5:21:11 AM	
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-23558		*LCS*				Batch ID:	**23558**	Analysis Date:		8/27/2010 8:47:00 PM	
Benzene	1.047	mg/Kg	0.050	1	0.0109	104	83.3	107			
Toluene	0.9895	mg/Kg	0.050	1	0	99.0	74.3	115			
Ethylbenzene	1.087	mg/Kg	0.050	1	0	109	80.9	122			
Xylenes, Total	3.277	mg/Kg	0.10	3	0	109	85.2	123			
Sample ID: LCS-23560		*LCS*				Batch ID:	**23560**	Analysis Date:		8/28/2010 10:50:26 PM	
Benzene	0.9957	mg/Kg	0.050	1	0.0163	97.9	83.3	107			
Toluene	0.9617	mg/Kg	0.050	1	0	96.2	74.3	115			
Ethylbenzene	1.058	mg/Kg	0.050	1	0.0114	105	80.9	122			
Xylenes, Total	3.150	mg/Kg	0.10	3	0	105	85.2	123			
Sample ID: 1008A29-01A MS		*MS*				Batch ID:	**23558**	Analysis Date:		8/27/2010 7:46:26 PM	
Benzene	1.133	mg/Kg	0.050	1	0.0113	112	67.2	113			
Toluene	1.131	mg/Kg	0.050	1	0	113	62.1	116			
Ethylbenzene	1.243	mg/Kg	0.050	1	0	124	67.9	127			
Xylenes, Total	3.714	mg/Kg	0.10	3	0	124	60.6	134			
Sample ID: 1008A29-27AMS		*MS*				Batch ID:	**23560**	Analysis Date:		8/28/2010 9:50:10 PM	
Benzene	0.8369	mg/Kg	0.050	1	0	83.7	67.2	113			
Toluene	0.8802	mg/Kg	0.050	1	0	88.0	62.1	116			
Ethylbenzene	0.9712	mg/Kg	0.050	1	0	97.1	67.9	127			
Xylenes, Total	2.937	mg/Kg	0.10	3	0	97.9	60.6	134			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms Semi-annual Sampling **Work Order:** 1008A29

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R40714**	Analysis Date:		8/31/2010 9:10:38 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R40714**	Analysis Date:		8/31/2010 6:21:56 PM	
Benzene	20.52	µg/L	1.0	20	0	103	84.7	118			
Toluene	19.66	µg/L	1.0	20	0	98.3	82	123			
Ethylbenzene	19.38	µg/L	1.0	20	0	96.9	83	118			
Xylenes, Total	58.89	µg/L	2.0	60	0	98.2	85.4	119			
Sample ID: 100NG BTEX LCSD		*LCSD*				Batch ID:	**R40714**	Analysis Date:		8/31/2010 6:52:23 PM	
Benzene	19.50	µg/L	1.0	20	0	97.5	84.7	118	5.13	17.7	
Toluene	18.49	µg/L	1.0	20	0	92.4	82	123	6.15	21.1	
Ethylbenzene	18.33	µg/L	1.0	20	0	91.7	83	118	5.54	19	
Xylenes, Total	55.47	µg/L	2.0	60	0	92.5	85.4	119	5.99	16.5	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU** Date Received: **8/25/2010**

Work Order Number **1008A29** Received by: **AMG**

Checklist completed by: Ashley M Gallegos 8/25/10 (Signature / Date) Sample ID labels checked by: MG (Initials)

Matrix: Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**7.3°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining

Mailing Address: Route 3 Box 7
Gallup, NM 87301

Phone #: (505) 722-3833

email or Fax#: (505) 722-0210

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: OCD Landfarms Semi-annual Sampling

Project #: 697-039-001

Project Manager: Ed Riege

Sampler: G. Price / A. Dorsey

On Ice: ☒ Yes ☐ No

Sample Temperature: 7.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1008A29	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BTEX	Chlorides 300.0			Air Bubbles (Y or N)
8/24/10	1246	Soil	Central OCD-01-82410	1-5oz	ice	1				X								X	X			
	1520		Central OCD-02-82410			2				X								X	X			
	1525		Central OCD-03-82410			3				X								X	X			
	1300		Central OCD-04-82410			4				X								X	X			
	1505		Central OCD-05-82410			5				X								X	X			
	1510		Central OCD-06-82410			6				X								X	X			
	1315 DUP		Central OCD-07-82410			7				X								X	X			
	1450		Central OCD-08-82410			8				X								X	X			
	1455		Central OCD-09-82410			9				X								X	X			
	1325		Central OCD-10-82410			10				X								X	X			
	1435		Central OCD-11-82410			11				X								X	X			
	1440		Central OCD-12-82410			12				X								X	X			

Date: 8/25/10 Time: 4:19 Relinquished by: _____ Received by: Ashley M Gallegos Date: 8/25/10 Time: 16:18

Date: _____ Time: _____ Relinquished by: _____ Received by: _____ Date: _____ Time: _____

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Western Refining

Mailing Address: Rute 3 Box 7
Gallup, NM 87301

Phone #: (505) 722-3833

email or Fax#: (505) 722-0210

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: OCD Landfarms
Semianual sampling

Project #: 697-039-001

Project Manager: Ed Riege

Sampler: G. Price / A. Dorsey

On Ice: ☒ Yes ☐ No

Sample Temperature: 13

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1008429	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BTEX	Chlorides 300.0			Air Bubbles (Y or N)
8/24/10	1140	Soil	NEOCD-01-82410	1-8oz		13			X	✓								X	X			
8/25/10	1050	Soil	NEOCD-02-82510			14			X	✓		8	25					X	X			
8/25/10	1055	Soil	NEOCD-03-82510			15			X	✓								X	X			
8/24/10	1152	Soil	NEOCD-04-82410			16			X	✓								X	X			
8/25/10	1115	Soil	NEOCD-05-82510			17			X	✓								X	X			
8/25/10	1120	Soil	NEOCD-06-82510			18			X	✓								X	X			
8/24/10	1208	Soil	NEOCD-07-82410			19			X	✓								X	X			
8/25/10	1125	Soil	NEOCD-08-82510			20			X	✓								X	X			
8/25/10	1130	Soil	NEOCD-09-82510			21			X	✓								X	X			
8/24/10	1220	Soil	NEOCD-10-82410			22			X	✓								X	X			
8/25/10	1135	Soil	NEOCD-11-82510			23			X	✓								X	X			
8/25/10	1140	Soil	NEOCD-12-82510			24			X	✓								X	X			

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/25/10	4:19		Ashley Gallegos	8/25	16:18
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Call Grant 307-399-0890 w/ QS

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Western Refining

Mailing Address: Route 3 Box 7
Gallup, NM 87301

Phone #: (505) 722-3833

email or Fax#: (505) 722-0210

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: OCD Landforms Semiannual Sampling

Project #: 697-039-501

Project Manager: Ed Riege

Sampler: G. Price / A. Dorsey

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1008129	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BTEX	Chlorides 300.0			Air Bubbles (Y or N)
24/10		soil	BD-1-82410	1-8oz	ice	25				X								X	X			
24/10		soil	BD-2-82410	1-8oz	ice	26				X								X	X			
24/10	12:08	soil	MS/MSD-82410	1-8oz	ice	27				X								X	X			
24/10	15:58	water	FB-82410	3 VOA	HCL	28				X								X	X			
24/10	16:00	water	EB-82410	3 VOA	HCL	29												X				
25/10	1250	water	FB-82510	3 VOA	HCL	30												X				
25/10	1255	water	EB-82510	3 VOA	HCL	31												X				
		water	Trip Blank	2 VOA	HCL	32												X				
			End of Record																			

BTEX only for EBs and TPH, Chlorides, & BTEX for all others

Date	Time	Relinquished by:	Received by:	Date	Time
2/10	4:19		Ashley M Gallegos	8/25/10	18
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, December 10, 2010

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: OCD Landfarms

Order No.: 1011126

Dear Ed Riege:

Hall Environmental Analysis Laboratory, Inc. received 13 sample(s) on 11/3/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 01 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 10:15:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 8:54:28 AM
Surr: Decachlorobiphenyl	84.4	16.9-111		%REC	1	11/6/2010 8:54:28 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	2.6	1.5		mg/Kg	5	11/16/2010 3:41:56 AM
Chloride	720	30		mg/Kg	20	11/16/2010 3:59:21 AM
Nitrogen, Nitrate (As N)	9.4	1.5		mg/Kg	5	11/16/2010 3:41:56 AM
Sulfate	470	7.5		mg/Kg	5	11/16/2010 3:41:56 AM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:26:04 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **RAGS**
Arsenic	ND	13		mg/Kg	5	11/17/2010 9:31:56 AM
Barium	330	1.0		mg/Kg	10	11/18/2010 10:05:45 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 9:31:56 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 9:31:56 AM
Copper	4.4	1.5		mg/Kg	5	11/17/2010 9:31:56 AM
Iron	15000	500		mg/Kg	500	11/18/2010 12:18:48 PM
Lead	6.3	1.3		mg/Kg	5	11/17/2010 9:31:56 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:05:45 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 9:31:56 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 9:31:56 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:05:45 AM
Zinc	24	13		mg/Kg	5	11/17/2010 9:31:56 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 01 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 10:15:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 12:50:55 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 12:50:55 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 01 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 10:15:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 12:50:55 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 12:50:55 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 12:50:55 PM
Surr: 2,4,6-Tribromophenol	79.3	32.2-125		%REC	1	11/11/2010 12:50:55 PM
Surr: 2-Fluorobiphenyl	86.9	29.8-137		%REC	1	11/11/2010 12:50:55 PM
Surr: 2-Fluorophenol	92.4	22.6-131		%REC	1	11/11/2010 12:50:55 PM
Surr: 4-Terphenyl-d14	82.2	23.8-110		%REC	1	11/11/2010 12:50:55 PM
Surr: Nitrobenzene-d5	103	29.5-130		%REC	1	11/11/2010 12:50:55 PM
Surr: Phenol-d5	98.8	25.5-127		%REC	1	11/11/2010 12:50:55 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:04:21 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:04:21 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 9:04:21 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 01 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 10:15:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 9:04:21 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 9:04:21 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 01 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 10:15:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 9:04:21 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 9:04:21 PM
Surr: 1,2-Dichloroethane-d4	102	77.8-97.5	S	%REC	1	11/6/2010 9:04:21 PM
Surr: 4-Bromofluorobenzene	97.3	82.2-105		%REC	1	11/6/2010 9:04:21 PM
Surr: Dibromofluoromethane	103	63.7-133		%REC	1	11/6/2010 9:04:21 PM
Surr: Toluene-d8	95.3	87.2-105		%REC	1	11/6/2010 9:04:21 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 02 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 11:20:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 9:42:05 AM
Surr: Decachlorobiphenyl	97.6	16.9-111		%REC	1	11/6/2010 9:42:05 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	2.9	0.30		mg/Kg	1	11/16/2010 4:16:46 AM
Chloride	78	15		mg/Kg	10	11/16/2010 5:08:59 AM
Nitrogen, Nitrate (As N)	6.3	0.30		mg/Kg	1	11/16/2010 4:16:46 AM
Sulfate	790	15		mg/Kg	10	11/16/2010 5:08:59 AM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	0.035	0.033		mg/Kg	1	11/11/2010 1:27:50 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **RAGS**
Arsenic	ND	13		mg/Kg	5	11/17/2010 9:58:30 AM
Barium	280	1.0		mg/Kg	10	11/18/2010 10:12:05 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 9:58:30 AM
Chromium	21	1.5		mg/Kg	5	11/17/2010 9:58:30 AM
Copper	22	1.5		mg/Kg	5	11/17/2010 9:58:30 AM
Iron	17000	500		mg/Kg	500	11/18/2010 12:21:50 PM
Lead	8.6	1.3		mg/Kg	5	11/17/2010 9:58:30 AM
Manganese	430	1.0		mg/Kg	10	11/18/2010 10:12:05 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 9:58:30 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 9:58:30 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:12:05 AM
Zinc	96	13		mg/Kg	5	11/17/2010 9:58:30 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM

Qualifiers:

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- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 02 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 11:20:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 1:20:21 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 1:20:21 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 02 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 11:20:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 1:20:21 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 1:20:21 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 1:20:21 PM
Surr: 2,4,6-Tribromophenol	73.6	32.2-125		%REC	1	11/11/2010 1:20:21 PM
Surr: 2-Fluorobiphenyl	75.2	29.8-137		%REC	1	11/11/2010 1:20:21 PM
Surr: 2-Fluorophenol	77.3	22.6-131		%REC	1	11/11/2010 1:20:21 PM
Surr: 4-Terphenyl-d14	77.9	23.8-110		%REC	1	11/11/2010 1:20:21 PM
Surr: Nitrobenzene-d5	80.6	29.5-130		%REC	1	11/11/2010 1:20:21 PM
Surr: Phenol-d5	78.9	25.5-127		%REC	1	11/11/2010 1:20:21 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:32:38 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 9:32:38 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 9:32:38 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 02 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 11:20:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 9:32:38 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 9:32:38 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 02 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 11:20:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 9:32:38 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 9:32:38 PM
Surr: 1,2-Dichloroethane-d4	100	77.8-97.5	S	%REC	1	11/6/2010 9:32:38 PM
Surr: 4-Bromofluorobenzene	74.6	82.2-105	S	%REC	1	11/6/2010 9:32:38 PM
Surr: Dibromofluoromethane	103	63.7-133		%REC	1	11/6/2010 9:32:38 PM
Surr: Toluene-d8	95.7	87.2-105		%REC	1	11/6/2010 9:32:38 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 03 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 11:45:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 12:01:00 PM
Surr: Decachlorobiphenyl	86.4	16.9-111		%REC	1	11/6/2010 12:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 5:26:24 AM
Chloride	210	30		mg/Kg	20	11/16/2010 5:26:24 AM
Nitrogen, Nitrate (As N)	7.2	6.0		mg/Kg	20	11/16/2010 5:26:24 AM
Sulfate	470	30		mg/Kg	20	11/16/2010 5:26:24 AM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:33:08 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **RAGS**
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:16:32 AM
Barium	210	0.50		mg/Kg	5	11/17/2010 10:16:32 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:16:32 AM
Chromium	15	1.5		mg/Kg	5	11/17/2010 10:16:32 AM
Copper	4.5	1.5		mg/Kg	5	11/17/2010 10:16:32 AM
Iron	14000	500		mg/Kg	500	11/18/2010 12:24:53 PM
Lead	5.2	1.3		mg/Kg	5	11/17/2010 10:16:32 AM
Manganese	370	1.0		mg/Kg	10	11/18/2010 10:20:12 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:16:32 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:16:32 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:20:12 AM
Zinc	25	13		mg/Kg	5	11/17/2010 10:16:32 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 03 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 11:45:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 2:49:08 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 2:49:08 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
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- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 03 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 11:45:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 2:49:08 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 2:49:08 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 2:49:08 PM
Surr: 2,4,6-Tribromophenol	75.2	32.2-125		%REC	1	11/11/2010 2:49:08 PM
Surr: 2-Fluorobiphenyl	71.4	29.8-137		%REC	1	11/11/2010 2:49:08 PM
Surr: 2-Fluorophenol	73.9	22.6-131		%REC	1	11/11/2010 2:49:08 PM
Surr: 4-Terphenyl-d14	73.2	23.8-110		%REC	1	11/11/2010 2:49:08 PM
Surr: Nitrobenzene-d5	79.1	29.5-130		%REC	1	11/11/2010 2:49:08 PM
Surr: Phenol-d5	74.9	25.5-127		%REC	1	11/11/2010 2:49:08 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:01:01 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:01:01 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:01:01 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM

Qualifiers:

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- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 03 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 11:45:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 10:01:01 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:01:01 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	CentralOCD 03 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 11:45:00 AM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:01:01 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:01:01 PM
Surr: 1,2-Dichloroethane-d4	93.9	77.8-97.5		%REC	1	11/6/2010 10:01:01 PM
Surr: 4-Bromofluorobenzene	93.7	82.2-105		%REC	1	11/6/2010 10:01:01 PM
Surr: Dibromofluoromethane	94.9	63.7-133		%REC	1	11/6/2010 10:01:01 PM
Surr: Toluene-d8	99.7	87.2-105		%REC	1	11/6/2010 10:01:01 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Central OCD 04 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 12:10:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 12:48:24 PM
Surr: Decachlorobiphenyl	87.6	16.9-111		%REC	1	11/6/2010 12:48:24 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	6.6	3.0		mg/Kg	10	11/16/2010 5:43:48 AM
Chloride	380	15		mg/Kg	10	11/16/2010 5:43:48 AM
Nitrogen, Nitrate (As N)	4.7	3.0		mg/Kg	10	11/16/2010 5:43:48 AM
Sulfate	600	15		mg/Kg	10	11/16/2010 5:43:48 AM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:34:55 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **RAGS**
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:24:18 AM
Barium	380	1.0		mg/Kg	10	11/18/2010 10:35:34 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:24:18 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 10:24:18 AM
Copper	4.3	1.5		mg/Kg	5	11/17/2010 10:24:18 AM
Iron	16000	500		mg/Kg	500	11/18/2010 12:27:47 PM
Lead	5.2	1.3		mg/Kg	5	11/17/2010 10:24:18 AM
Manganese	320	1.0		mg/Kg	10	11/18/2010 10:35:34 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:24:18 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:24:18 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:35:34 AM
Zinc	23	13		mg/Kg	5	11/17/2010 10:24:18 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
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- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Central OCD 04 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 12:10:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 3:18:50 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 3:18:50 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
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Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Central OCD 04 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 12:10:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:18:50 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 3:18:50 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:18:50 PM
Surr: 2,4,6-Tribromophenol	80.6	32.2-125		%REC	1	11/11/2010 3:18:50 PM
Surr: 2-Fluorobiphenyl	79.6	29.8-137		%REC	1	11/11/2010 3:18:50 PM
Surr: 2-Fluorophenol	84.7	22.6-131		%REC	1	11/11/2010 3:18:50 PM
Surr: 4-Terphenyl-d14	86.3	23.8-110		%REC	1	11/11/2010 3:18:50 PM
Surr: Nitrobenzene-d5	86.9	29.5-130		%REC	1	11/11/2010 3:18:50 PM
Surr: Phenol-d5	89.6	25.5-127		%REC	1	11/11/2010 3:18:50 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:29:26 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:29:26 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:29:26 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM

Qualifiers:

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- E Estimated value
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- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Central OCD 04 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 12:10:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 10:29:26 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:29:26 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
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- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Central OCD 04 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 12:10:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:29:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:29:26 PM
Surr: 1,2-Dichloroethane-d4	91.5	77.8-97.5		%REC	1	11/6/2010 10:29:26 PM
Surr: 4-Bromofluorobenzene	94.0	82.2-105		%REC	1	11/6/2010 10:29:26 PM
Surr: Dibromofluoromethane	95.6	63.7-133		%REC	1	11/6/2010 10:29:26 PM
Surr: Toluene-d8	93.3	87.2-105		%REC	1	11/6/2010 10:29:26 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 01 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 1:15:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 1:35:38 PM
Surr: Decachlorobiphenyl	85.2	16.9-111		%REC	1	11/6/2010 1:35:38 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 6:36:02 AM
Chloride	100	30		mg/Kg	20	11/16/2010 6:36:02 AM
Nitrogen, Nitrate (As N)	ND	6.0		mg/Kg	20	11/16/2010 6:36:02 AM
Sulfate	230	30		mg/Kg	20	11/16/2010 6:36:02 AM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:36:44 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **RAGS**
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:32:06 AM
Barium	250	0.50		mg/Kg	5	11/17/2010 10:32:06 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:32:06 AM
Chromium	14	1.5		mg/Kg	5	11/17/2010 10:32:06 AM
Copper	3.2	1.5		mg/Kg	5	11/17/2010 10:32:06 AM
Iron	17000	500		mg/Kg	500	11/18/2010 12:46:15 PM
Lead	7.0	1.3		mg/Kg	5	11/17/2010 10:32:06 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:42:02 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:32:06 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:32:06 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:42:02 AM
Zinc	21	13		mg/Kg	5	11/17/2010 10:32:06 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 01 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 1:15:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 3:48:28 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 3:48:28 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM

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- NC Non-Chlorinated
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- PQL Practical Quantitation Limit
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Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 01 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 1:15:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 3:48:28 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 3:48:28 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 3:48:28 PM
Surr: 2,4,6-Tribromophenol	61.8	32.2-125		%REC	1	11/11/2010 3:48:28 PM
Surr: 2-Fluorobiphenyl	59.9	29.8-137		%REC	1	11/11/2010 3:48:28 PM
Surr: 2-Fluorophenol	62.0	22.6-131		%REC	1	11/11/2010 3:48:28 PM
Surr: 4-Terphenyl-d14	67.0	23.8-110		%REC	1	11/11/2010 3:48:28 PM
Surr: Nitrobenzene-d5	66.7	29.5-130		%REC	1	11/11/2010 3:48:28 PM
Surr: Phenol-d5	61.9	25.5-127		%REC	1	11/11/2010 3:48:28 PM
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:57:36 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 10:57:36 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 10:57:36 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM

Qualifiers:

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- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 01 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 1:15:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 10:57:36 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 10:57:36 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM

Qualifiers:

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- E Estimated value
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- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 01 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 1:15:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 10:57:36 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 10:57:36 PM
Surr: 1,2-Dichloroethane-d4	94.2	77.8-97.5		%REC	1	11/6/2010 10:57:36 PM
Surr: 4-Bromofluorobenzene	93.9	82.2-105		%REC	1	11/6/2010 10:57:36 PM
Surr: Dibromofluoromethane	92.7	63.7-133		%REC	1	11/6/2010 10:57:36 PM
Surr: Toluene-d8	97.9	87.2-105		%REC	1	11/6/2010 10:57:36 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

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- NC Non-Chlorinated
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- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 02 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 1:40:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 2:21:13 PM
Surr: Decachlorobiphenyl	101	16.9-111		%REC	1	11/6/2010 2:21:13 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 6:53:26 AM
Chloride	72	30		mg/Kg	20	11/16/2010 6:53:26 AM
Nitrogen, Nitrate (As N)	17	6.0		mg/Kg	20	11/16/2010 6:53:26 AM
Sulfate	270	30		mg/Kg	20	11/16/2010 6:53:26 AM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:38:32 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **RAGS**
Arsenic	ND	13		mg/Kg	5	11/17/2010 10:52:22 AM
Barium	330	1.0		mg/Kg	10	11/18/2010 10:48:43 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 10:52:22 AM
Chromium	13	1.5		mg/Kg	5	11/17/2010 10:52:22 AM
Copper	2.7	1.5		mg/Kg	5	11/17/2010 10:52:22 AM
Iron	14000	500		mg/Kg	500	11/18/2010 12:49:07 PM
Lead	5.9	1.3		mg/Kg	5	11/17/2010 10:52:22 AM
Manganese	380	1.0		mg/Kg	10	11/18/2010 10:48:43 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 10:52:22 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 10:52:22 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:48:43 AM
Zinc	24	13		mg/Kg	5	11/17/2010 10:52:22 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM

Qualifiers:

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- NC Non-Chlorinated
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Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 02 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 1:40:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 4:18:10 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 4:18:10 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 02 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 1:40:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:18:10 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 4:18:10 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:18:10 PM
Surr: 2,4,6-Tribromophenol	86.1	32.2-125		%REC	1	11/11/2010 4:18:10 PM
Surr: 2-Fluorobiphenyl	89.0	29.8-137		%REC	1	11/11/2010 4:18:10 PM
Surr: 2-Fluorophenol	91.3	22.6-131		%REC	1	11/11/2010 4:18:10 PM
Surr: 4-Terphenyl-d14	83.1	23.8-110		%REC	1	11/11/2010 4:18:10 PM
Surr: Nitrobenzene-d5	96.7	29.5-130		%REC	1	11/11/2010 4:18:10 PM
Surr: Phenol-d5	95.6	25.5-127		%REC	1	11/11/2010 4:18:10 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:25:46 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:25:46 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 11:25:46 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM

Qualifiers:

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- E Estimated value
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- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 02 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 1:40:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 11:25:46 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 11:25:46 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 02 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 1:40:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 11:25:46 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 11:25:46 PM
Surr: 1,2-Dichloroethane-d4	94.7	77.8-97.5		%REC	1	11/6/2010 11:25:46 PM
Surr: 4-Bromofluorobenzene	94.0	82.2-105		%REC	1	11/6/2010 11:25:46 PM
Surr: Dibromofluoromethane	96.1	63.7-133		%REC	1	11/6/2010 11:25:46 PM
Surr: Toluene-d8	97.9	87.2-105		%REC	1	11/6/2010 11:25:46 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

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E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 03 1102010
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:00:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 5:31:43 PM
Surr: Decachlorobiphenyl	98.8	16.9-111		%REC	1	11/6/2010 5:31:43 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 7:10:51 AM
Chloride	120	30		mg/Kg	20	11/16/2010 7:10:51 AM
Nitrogen, Nitrate (As N)	6.8	6.0		mg/Kg	20	11/16/2010 7:10:51 AM
Sulfate	660	30		mg/Kg	20	11/16/2010 7:10:51 AM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:44:01 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **RAGS**
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:00:20 AM
Barium	320	1.0		mg/Kg	10	11/18/2010 10:56:56 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:00:20 AM
Chromium	12	1.5		mg/Kg	5	11/17/2010 11:00:20 AM
Copper	2.1	1.5		mg/Kg	5	11/17/2010 11:00:20 AM
Iron	13000	500		mg/Kg	500	11/18/2010 12:52:12 PM
Lead	5.9	1.3		mg/Kg	5	11/17/2010 11:00:20 AM
Manganese	390	1.0		mg/Kg	10	11/18/2010 10:56:56 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:00:20 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:00:20 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 10:56:56 AM
Zinc	17	13		mg/Kg	5	11/17/2010 11:00:20 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 03 1102010
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:00:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 4:47:49 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 4:47:49 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 03 1102010
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:00:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 4:47:49 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 4:47:49 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 4:47:49 PM
Surr: 2,4,6-Tribromophenol	92.4	32.2-125		%REC	1	11/11/2010 4:47:49 PM
Surr: 2-Fluorobiphenyl	101	29.8-137		%REC	1	11/11/2010 4:47:49 PM
Surr: 2-Fluorophenol	104	22.6-131		%REC	1	11/11/2010 4:47:49 PM
Surr: 4-Terphenyl-d14	91.5	23.8-110		%REC	1	11/11/2010 4:47:49 PM
Surr: Nitrobenzene-d5	112	29.5-130		%REC	1	11/11/2010 4:47:49 PM
Surr: Phenol-d5	113	25.5-127		%REC	1	11/11/2010 4:47:49 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Toluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Naphthalene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:53:58 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/6/2010 11:53:58 PM
Acetone	ND	0.75		mg/Kg	1	11/6/2010 11:53:58 PM
Bromobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM

Qualifiers:

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- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 03 1102010
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:00:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Bromodichloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Bromoform	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Bromomethane	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
2-Butanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Carbon disulfide	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Chlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Chloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Chloroform	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Chloromethane	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Dibromomethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
2-Hexanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/6/2010 11:53:58 PM
Methylene chloride	ND	0.15		mg/Kg	1	11/6/2010 11:53:58 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Styrene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM

Qualifiers:

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- E Estimated value
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- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 03 1102010
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:00:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Vinyl chloride	ND	0.050		mg/Kg	1	11/6/2010 11:53:58 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2010 11:53:58 PM
Surr: 1,2-Dichloroethane-d4	96.0	77.8-97.5		%REC	1	11/6/2010 11:53:58 PM
Surr: 4-Bromofluorobenzene	95.7	82.2-105		%REC	1	11/6/2010 11:53:58 PM
Surr: Dibromofluoromethane	97.6	63.7-133		%REC	1	11/6/2010 11:53:58 PM
Surr: Toluene-d8	97.0	87.2-105		%REC	1	11/6/2010 11:53:58 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

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- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 04 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:30:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 6:17:12 PM
Surr: Decachlorobiphenyl	99.2	16.9-111		%REC	1	11/6/2010 6:17:12 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	ND	6.0		mg/Kg	20	11/16/2010 7:28:16 AM
Chloride	60	30		mg/Kg	20	11/16/2010 7:28:16 AM
Nitrogen, Nitrate (As N)	61	6.0		mg/Kg	20	11/16/2010 7:28:16 AM
Sulfate	390	30		mg/Kg	20	11/16/2010 7:28:16 AM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:45:50 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **RAGS**
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:08:08 AM
Barium	310	2.0		mg/Kg	20	11/18/2010 12:55:03 PM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:08:08 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 11:08:08 AM
Copper	3.6	1.5		mg/Kg	5	11/17/2010 11:08:08 AM
Iron	17000	500		mg/Kg	500	11/18/2010 1:25:15 PM
Lead	6.9	1.3		mg/Kg	5	11/17/2010 11:08:08 AM
Manganese	420	2.0		mg/Kg	20	11/18/2010 12:55:03 PM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:08:08 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:08:08 AM
Uranium	ND	100		mg/Kg	20	11/18/2010 12:55:03 PM
Zinc	23	13		mg/Kg	5	11/17/2010 11:08:08 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 04 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:30:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 5:17:19 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 5:17:19 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 04 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:30:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:17:19 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 5:17:19 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:17:19 PM
Surr: 2,4,6-Tribromophenol	66.7	32.2-125		%REC	1	11/11/2010 5:17:19 PM
Surr: 2-Fluorobiphenyl	76.1	29.8-137		%REC	1	11/11/2010 5:17:19 PM
Surr: 2-Fluorophenol	76.2	22.6-131		%REC	1	11/11/2010 5:17:19 PM
Surr: 4-Terphenyl-d14	70.8	23.8-110		%REC	1	11/11/2010 5:17:19 PM
Surr: Nitrobenzene-d5	84.2	29.5-130		%REC	1	11/11/2010 5:17:19 PM
Surr: Phenol-d5	79.0	25.5-127		%REC	1	11/11/2010 5:17:19 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:22:00 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:22:00 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 12:22:00 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 04 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:30:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 12:22:00 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 12:22:00 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD 04 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:30:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 12:22:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 12:22:00 AM
Surr: 1,2-Dichloroethane-d4	98.1	77.8-97.5	S	%REC	1	11/7/2010 12:22:00 AM
Surr: 4-Bromofluorobenzene	95.2	82.2-105		%REC	1	11/7/2010 12:22:00 AM
Surr: Dibromofluoromethane	99.9	63.7-133		%REC	1	11/7/2010 12:22:00 AM
Surr: Toluene-d8	103	87.2-105		%REC	1	11/7/2010 12:22:00 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

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- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BD 1 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1221	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1232	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1242	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1248	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1254	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Aroclor 1260	ND	0.020		mg/Kg	1	11/6/2010 7:04:00 PM
Surr: Decachlorobiphenyl	86.4	16.9-111		%REC	1	11/6/2010 7:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	5.4	3.0		mg/Kg	10	11/16/2010 7:45:41 AM
Chloride	390	15		mg/Kg	10	11/16/2010 7:45:41 AM
Nitrogen, Nitrate (As N)	4.7	3.0		mg/Kg	10	11/16/2010 7:45:41 AM
Sulfate	650	15		mg/Kg	10	11/16/2010 7:45:41 AM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:47:39 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **RAGS**
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:17:36 AM
Barium	340	1.0		mg/Kg	10	11/18/2010 11:18:44 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:17:36 AM
Chromium	16	1.5		mg/Kg	5	11/17/2010 11:17:36 AM
Copper	4.0	1.5		mg/Kg	5	11/17/2010 11:17:36 AM
Iron	15000	500		mg/Kg	500	11/18/2010 1:00:36 PM
Lead	4.9	1.3		mg/Kg	5	11/17/2010 11:17:36 AM
Manganese	350	1.0		mg/Kg	10	11/18/2010 11:18:44 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:17:36 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:17:36 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 11:18:44 AM
Zinc	23	13		mg/Kg	5	11/17/2010 11:17:36 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BD 1 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 5:46:53 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 5:46:53 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BD 1 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 5:46:53 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 5:46:53 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 5:46:53 PM
Surr: 2,4,6-Tribromophenol	58.3	32.2-125		%REC	1	11/11/2010 5:46:53 PM
Surr: 2-Fluorobiphenyl	57.2	29.8-137		%REC	1	11/11/2010 5:46:53 PM
Surr: 2-Fluorophenol	58.1	22.6-131		%REC	1	11/11/2010 5:46:53 PM
Surr: 4-Terphenyl-d14	55.2	23.8-110		%REC	1	11/11/2010 5:46:53 PM
Surr: Nitrobenzene-d5	67.0	29.5-130		%REC	1	11/11/2010 5:46:53 PM
Surr: Phenol-d5	61.3	25.5-127		%REC	1	11/11/2010 5:46:53 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:50:17 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 12:50:17 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 12:50:17 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BD 1 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 12:50:17 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 12:50:17 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BD 1 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 12:50:17 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 12:50:17 AM
Surr: 1,2-Dichloroethane-d4	97.4	77.8-97.5		%REC	1	11/7/2010 12:50:17 AM
Surr: 4-Bromofluorobenzene	94.9	82.2-105		%REC	1	11/7/2010 12:50:17 AM
Surr: Dibromofluoromethane	98.1	63.7-133		%REC	1	11/7/2010 12:50:17 AM
Surr: Toluene-d8	97.0	87.2-105		%REC	1	11/7/2010 12:50:17 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	11/5/2010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	FB 1100210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:55:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:27:43 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:27:43 AM
Acetone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	FB 1100210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:55:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	*1011126-10*	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
2-Hexanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 4:27:43 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 4:27:43 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 4:27:43 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 4:27:43 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 4:27:43 AM
Surr: 1,2-Dichloroethane-d4	102	77.7-113		%REC	1	11/4/2010 4:27:43 AM
Surr: 4-Bromofluorobenzene	105	76.4-106		%REC	1	11/4/2010 4:27:43 AM
Surr: Dibromofluoromethane	111	91.6-125		%REC	1	11/4/2010 4:27:43 AM
Surr: Toluene-d8	94.4	92.3-107		%REC	1	11/4/2010 4:27:43 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	EB 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:50:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-11	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:53:47 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 4:53:47 AM
Acetone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	EB 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:50:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-11	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
2-Hexanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 4:53:47 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 4:53:47 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 4:53:47 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 4:53:47 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 4:53:47 AM
Surr: 1,2-Dichloroethane-d4	105	77.7-113		%REC	1	11/4/2010 4:53:47 AM
Surr: 4-Bromofluorobenzene	109	76.4-106	S	%REC	1	11/4/2010 4:53:47 AM
Surr: Dibromofluoromethane	109	91.6-125		%REC	1	11/4/2010 4:53:47 AM
Surr: Toluene-d8	97.3	92.3-107		%REC	1	11/4/2010 4:53:47 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD Closure 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:40:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1221	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1232	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1242	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1248	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1254	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Aroclor 1260	ND	0.10		mg/Kg	1	11/6/2010 7:51:05 PM
Surr: Decachlorobiphenyl	82.0	16.9-111		%REC	1	11/6/2010 7:51:05 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	210	10		mg/Kg	1	11/6/2010 12:28:03 PM
Motor Oil Range Organics (MRO)	82	50		mg/Kg	1	11/6/2010 12:28:03 PM
Surr: DNOP	114	61.7-135		%REC	1	11/6/2010 12:28:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **DAM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/10/2010 10:04:09 PM
Surr: BFB	105	93.1-120		%REC	1	11/10/2010 10:04:09 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	8.9	6.0		mg/Kg	20	11/16/2010 8:03:06 AM
Chloride	100	30		mg/Kg	20	11/16/2010 8:03:06 AM
Nitrogen, Nitrate (As N)	14	6.0		mg/Kg	20	11/16/2010 8:03:06 AM
Sulfate	670	30		mg/Kg	20	11/16/2010 8:03:06 AM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	11/11/2010 1:49:29 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **RAGS**
Arsenic	ND	13		mg/Kg	5	11/17/2010 11:25:20 AM
Barium	300	1.0		mg/Kg	10	11/18/2010 11:26:53 AM
Cadmium	ND	0.50		mg/Kg	5	11/17/2010 11:25:20 AM
Chromium	15	1.5		mg/Kg	5	11/17/2010 11:25:20 AM
Copper	3.6	1.5		mg/Kg	5	11/17/2010 11:25:20 AM
Iron	16000	500		mg/Kg	500	11/18/2010 1:03:26 PM
Lead	8.4	1.3		mg/Kg	5	11/17/2010 11:25:20 AM
Manganese	460	1.0		mg/Kg	10	11/18/2010 11:26:53 AM
Selenium	ND	13		mg/Kg	5	11/17/2010 11:25:20 AM
Silver	ND	1.3		mg/Kg	5	11/17/2010 11:25:20 AM
Uranium	ND	50		mg/Kg	10	11/18/2010 11:26:53 AM
Zinc	24	13		mg/Kg	5	11/17/2010 11:25:20 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD Closure 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:40:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Acenaphthylene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Aniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Azobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Benzoic acid	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Carbazole	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Chrysene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Dibenzofuran	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	11/11/2010 6:16:23 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	11/11/2010 6:16:23 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD Closure 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:40:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Fluoranthene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Fluorene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Hexachloroethane	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Isophorone	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2-Methylphenol	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Naphthalene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
Nitrobenzene	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
4-Nitrophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	11/11/2010 6:16:23 PM
Phenanthrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Phenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pyrene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Pyridine	ND	0.50		mg/Kg	1	11/11/2010 6:16:23 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	11/11/2010 6:16:23 PM
Surr: 2,4,6-Tribromophenol	78.1	32.2-125		%REC	1	11/11/2010 6:16:23 PM
Surr: 2-Fluorobiphenyl	82.4	29.8-137		%REC	1	11/11/2010 6:16:23 PM
Surr: 2-Fluorophenol	86.2	22.6-131		%REC	1	11/11/2010 6:16:23 PM
Surr: 4-Terphenyl-d14	90.2	23.8-110		%REC	1	11/11/2010 6:16:23 PM
Surr: Nitrobenzene-d5	94.0	29.5-130		%REC	1	11/11/2010 6:16:23 PM
Surr: Phenol-d5	97.8	25.5-127		%REC	1	11/11/2010 6:16:23 PM
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Toluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD Closure 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:40:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Naphthalene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 1:18:38 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	11/7/2010 1:18:38 AM
Acetone	ND	0.75		mg/Kg	1	11/7/2010 1:18:38 AM
Bromobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromoform	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Bromomethane	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM
2-Butanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Carbon disulfide	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Chlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Chloroethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Chloroform	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Chloromethane	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Dibromomethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
2-Hexanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	11/7/2010 1:18:38 AM
Methylene chloride	ND	0.15		mg/Kg	1	11/7/2010 1:18:38 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NEOCD Closure 110210
Lab Order:	1011126	**Collection Date:**	11/2/2010 2:40:00 PM
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
n-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Styrene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Vinyl chloride	ND	0.050		mg/Kg	1	11/7/2010 1:18:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	11/7/2010 1:18:38 AM
Surr: 1,2-Dichloroethane-d4	93.5	77.8-97.5		%REC	1	11/7/2010 1:18:38 AM
Surr: 4-Bromofluorobenzene	94.2	82.2-105		%REC	1	11/7/2010 1:18:38 AM
Surr: Dibromofluoromethane	98.1	63.7-133		%REC	1	11/7/2010 1:18:38 AM
Surr: Toluene-d8	96.1	87.2-105		%REC	1	11/7/2010 1:18:38 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	90	20		mg/Kg	1	11/5/2010

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1011126	**Collection Date:**	
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-13	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Toluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Ethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Naphthalene	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 5:19:50 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/4/2010 5:19:50 AM
Acetone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Bromobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromoform	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Bromomethane	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
2-Butanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Carbon disulfide	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chloroethane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Chloroform	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Chloromethane	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Dibromomethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *10-Dec-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1011126	**Collection Date:**	
Project:	OCD Landfarms	**Date Received:**	11/3/2010
Lab ID:	1011126-13	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
2-Hexanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/4/2010 5:19:50 AM
Methylene Chloride	ND	3.0		µg/L	1	11/4/2010 5:19:50 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Styrene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/4/2010 5:19:50 AM
Vinyl chloride	ND	1.0		µg/L	1	11/4/2010 5:19:50 AM
Xylenes, Total	ND	1.5		µg/L	1	11/4/2010 5:19:50 AM
Surr: 1,2-Dichloroethane-d4	108	77.7-113		%REC	1	11/4/2010 5:19:50 AM
Surr: 4-Bromofluorobenzene	102	76.4-106		%REC	1	11/4/2010 5:19:50 AM
Surr: Dibromofluoromethane	113	91.6-125		%REC	1	11/4/2010 5:19:50 AM
Surr: Toluene-d8	97.2	92.3-107		%REC	1	11/4/2010 5:19:50 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-001
Client Sample ID 1011126-01C, CentralOCD 01 110210

Report Date: 12/08/10
Collection Date: 11/02/10 10:15
DateReceived: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 14:50 / kjp
RADIONUCLIDES							
Radium 226	0.4	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 228	1.1	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-002
Client Sample ID 1011126-02C, Central OCD 02 110210

Report Date: 12/08/10
Collection Date: 11/02/10 11:20
DateReceived: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 14:52 / kjp
RADIONUCLIDES							
Radium 226	0.04	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.007	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 MDC	0.006	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 228	0.04	pCi/g-dry	U			RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.03	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.04	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-003
Client Sample ID 1011126-03C, CentralOCD 03 110210

Report Date: 12/08/10
Collection Date: 11/02/10 11:45
DateReceived: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:05 / kjp
RADIONUCLIDES							
Radium 226	0.5	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 228	0.9	pCi/g-dry	U			RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-004
Client Sample ID 1011126-04C, CentralOCD 04 110210

Report Date: 12/08/10
Collection Date: 11/02/10 12:10
DateReceived: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:07 / kjp
RADIONUCLIDES							
Radium 226	0.8	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 228	0.8	pCi/g-dry	U			RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-005
Client Sample ID 1011126-05C, NEOCD 01 110210

Report Date: 12/08/10
Collection Date: 11/02/10 13:15
DateReceived: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:08 / kjp
RADIONUCLIDES							
Radium 226	0.8	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 12:18 / eli-ca
Radium 228	1.5	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-006
Client Sample ID 1011126-06C, NEOCD 02 110210

Report Date: 12/08/10
Collection Date: 11/02/10 13:40
DateReceived: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:10 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 228	1.5	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-007
Client Sample ID 1011126-07C, NEOCD 03 1102010

Report Date: 12/08/10
Collection Date: 11/02/10 14:00
DateReceived: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:12 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 228	1.4	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-008
Client Sample ID 1011126-08C, NEOCD 04 110210

Report Date: 12/08/10
Collection Date: 11/02/10 14:30
DateReceived: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:14 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 228	1.1	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-009
Client Sample ID 1011126-09C, BD 1 110210

Report Date: 12/08/10
Collection Date: 11/02/10
DateReceived: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:16 / kjp
RADIONUCLIDES							
Radium 226	0.6	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.2	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 228	0.8	pCi/g-dry	U			RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.5	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.8	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1011126
Lab ID: B10110548-010
Client Sample ID 1011126-12C, NEOCD Closure 110210

Report Date: 12/08/10
Collection Date: 11/02/10 14:40
DateReceived: 11/04/10
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
CYANIDE							
Cyanide, Total	ND	mg/kg		0.5		SW9012	11/09/10 15:18 / kjp
RADIONUCLIDES							
Radium 226	0.5	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 226 MDC	0.1	pCi/g-dry				E903.0	12/06/10 13:49 / eli-ca
Radium 228	1	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 precision (±)	0.6	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca
Radium 228 MDC	0.9	pCi/g-dry				RA-05	11/29/10 12:52 / eli-ca

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 1011126

Report Date: 12/08/10
Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: C_R140653
Sample ID: B10110548-002A		Sample Matrix Spike				Run: SUB-C140653				12/06/10 12:18
Radium 226		14	pCi/g-dry		98	70	130			
Sample ID: B10110548-002A		Sample Matrix Spike Duplicate				Run: SUB-C140653				12/06/10 12:18
Radium 226		15	pCi/g-dry		103	70	130	8.6	21.3	
Sample ID: LCS-28206		Laboratory Control Sample				Run: SUB-C140653				12/06/10 12:18
Radium 226		1.4	pCi/g-dry		94	70	130			
Sample ID: MB-28206	3	Method Blank				Run: SUB-C140653				12/06/10 12:18
Radium 226		-0.0001	pCi/g-dry							U
Radium 226 precision (±)		0.0001	pCi/g-dry							
Radium 226 MDC		0.0002	pCi/g-dry							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: Hall Environmental
Project: 1011126

Report Date: 12/08/10
Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05										Batch: C_28206
Sample ID: LCS-28206		Laboratory Control Sample				Run: SUB-C140336				11/29/10 12:52
Radium 228		1.3	pCi/g-dry		98	70	130			
Sample ID: MB-28206	3	Method Blank				Run: SUB-C140336				11/29/10 12:52
Radium 228		0.0007	pCi/g-dry							U
Radium 228 precision (±)		0.001	pCi/g-dry							
Radium 228 MDC		0.002	pCi/g-dry							
Sample ID: B10110548-002A		Sample Matrix Spike				Run: SUB-C140336				11/29/10 12:52
Radium 228		13	pCi/g-dry		107	70	130			
Sample ID: B10110548-002A		Sample Matrix Spike Duplicate				Run: SUB-C140336				11/29/10 12:52
Radium 228		13	pCi/g-dry		102	70	130	1.4	31.6	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: Hall Environmental
Project: 1011126

Report Date: 12/08/10
Work Order: B10110548

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW9012										Batch: 50380
Sample ID: LCS-50380		Laboratory Control Sample				Run: AUTOAN201-B_101109A				11/09/10 14:09
Cyanide, Total		5.15	mg/kg	0.50	103	60	140			
Sample ID: MB-50380		Method Blank				Run: AUTOAN201-B_101109A				11/09/10 14:14
Cyanide, Total		ND	mg/kg	0.5						
Sample ID: B10110548-002AMS		Sample Matrix Spike				Run: AUTOAN201-B_101109A				11/09/10 14:54
Cyanide, Total		5.26	mg/kg	0.50	105	50	150			
Sample ID: B10110548-002AMSD		Sample Matrix Spike				Run: AUTOAN201-B_101109A				11/09/10 14:56
Cyanide, Total		5.30	mg/kg	0.50	106	50	150			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms **Work Order:** 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1011126-02AMSD		*MSD*				Batch ID:	**24525**	Analysis Date:		11/16/2010 4:51:35 AM	
Fluoride	3.751	mg/Kg	0.30	1.5	2.856	59.7	13.2	140	2.31	20	
Nitrogen, Nitrate (As N)	14.49	mg/Kg	0.30	7.5	6.261	110	71.4	132	5.04	20	
Sample ID: MB-24525		*MBLK*				Batch ID:	**24525**	Analysis Date:		11/16/2010 3:07:07 AM	
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-24525		*LCS*				Batch ID:	**24525**	Analysis Date:		11/16/2010 3:24:31 AM	
Fluoride	1.549	mg/Kg	0.30	1.5	0	103	90	110			
Chloride	13.53	mg/Kg	1.5	15	0	90.2	90	110			
Nitrogen, Nitrate (As N)	6.924	mg/Kg	0.30	7.5	0	92.3	90	110			
Sulfate	27.55	mg/Kg	1.5	30	0	91.8	90	110			
Sample ID: 1011126-02AMS		*MS*				Batch ID:	**24525**	Analysis Date:		11/16/2010 4:34:10 AM	
Fluoride	3.665	mg/Kg	0.30	1.5	2.856	54.0	13.2	140			
Nitrogen, Nitrate (As N)	13.77	mg/Kg	0.30	7.5	6.261	100	71.4	132			
Method: EPA Method 418.1: TPH											
Sample ID: 1011126-02BMSD		*MSD*				Batch ID:	**24385**	Analysis Date:		11/5/2010	
Petroleum Hydrocarbons, TR	91.18	mg/Kg	20	100	0	91.2	80	120	3.19	20	
Sample ID: MB-24385		*MBLK*				Batch ID:	**24385**	Analysis Date:		11/5/2010	
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-24385		*LCS*				Batch ID:	**24385**	Analysis Date:		11/5/2010	
Petroleum Hydrocarbons, TR	96.90	mg/Kg	20	100	0	96.9	86.8	116			
Sample ID: LCSD-24385		*LCSD*				Batch ID:	**24385**	Analysis Date:		11/5/2010	
Petroleum Hydrocarbons, TR	98.32	mg/Kg	20	100	0	98.3	86.8	116	1.45	16.2	
Sample ID: 1011126-02BMS		*MS*				Batch ID:	**24385**	Analysis Date:		11/5/2010	
Petroleum Hydrocarbons, TR	88.32	mg/Kg	20	100	0	88.3	80	120			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-24372		*MBLK*				Batch ID:	**24372**	Analysis Date:		11/5/2010 5:35:45 PM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-24372		*LCS*				Batch ID:	**24372**	Analysis Date:		11/5/2010 6:09:52 PM	
Diesel Range Organics (DRO)	46.05	mg/Kg	10	50	0	92.1	64.6	116			
Sample ID: LCSD-24372		*LCSD*				Batch ID:	**24372**	Analysis Date:		11/5/2010 6:44:00 PM	
Diesel Range Organics (DRO)	45.70	mg/Kg	10	50	0	91.4	64.6	116	0.769	17.4	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms **Work Order:** 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1011126-12B MSD		*MSD*				Batch ID: **24378**		Analysis Date: 11/10/2010 11:01:58 PM			
Gasoline Range Organics (GRO)	25.20	mg/Kg	5.0	25	0	101	69.2	144	10.7	20.5	
Sample ID: MB-24378		*MBLK*				Batch ID: **24378**		Analysis Date: 11/10/2010 12:25:16 AM			
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-24378		*LCS*				Batch ID: **24378**		Analysis Date: 11/9/2010 11:56:15 PM			
Gasoline Range Organics (GRO)	25.68	mg/Kg	5.0	25	0	103	95.7	120			
Sample ID: 1011126-12B MS		*MS*				Batch ID: **24378**		Analysis Date: 11/10/2010 10:33:05 PM			
Gasoline Range Organics (GRO)	28.05	mg/Kg	5.0	25	0	112	69.2	144			
Method: EPA Method 8082: PCB's											
Sample ID: 1011126-02BMSD		*MSD*				Batch ID: **24367**		Analysis Date: 11/6/2010 11:15:24 AM			
Aroclor 1260	0.1255	mg/Kg	0.020	0.125	0	100	45	117	2.32	20	
Sample ID: MB-24367		*MBLK*				Batch ID: **24367**		Analysis Date: 11/5/2010 10:41:27 PM			
Aroclor 1016	ND	mg/Kg	0.020								
Aroclor 1221	ND	mg/Kg	0.020								
Aroclor 1232	ND	mg/Kg	0.020								
Aroclor 1242	ND	mg/Kg	0.020								
Aroclor 1248	ND	mg/Kg	0.020								
Aroclor 1254	ND	mg/Kg	0.020								
Aroclor 1260	ND	mg/Kg	0.020								
Sample ID: LCS-24367		*LCS*				Batch ID: **24367**		Analysis Date: 11/5/2010 11:28:31 PM			
Aroclor 1260	0.09900	mg/Kg	0.020	0.125	0	79.2	38.2	140			
Sample ID: 1011126-02BMS		*MS*				Batch ID: **24367**		Analysis Date: 11/6/2010 10:27:53 AM			
Aroclor 1260	0.1284	mg/Kg	0.020	0.125	0	103	45	117			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms **Work Order:** 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 1011126-02BMSD		*MSD*				Batch ID: **24378**		Analysis Date:		11/7/2010 1:15:05 AM	
Benzene	0.9250	mg/Kg	0.050	1	0	92.5	62.3	118	1.07	20	
Toluene	0.9231	mg/Kg	0.050	1	0.0154	90.8	76.4	120	2.80	12.5	
Chlorobenzene	0.9122	mg/Kg	0.050	1	0.0063	90.6	78.1	125	0.889	14	
1,1-Dichloroethene	1.072	mg/Kg	0.050	1	0	107	60.9	128	1.92	30.9	
Trichloroethene (TCE)	0.8648	mg/Kg	0.050	1	0	86.5	56.2	102	3.71	21.1	
Sample ID: mb-24378		*MBLK*				Batch ID: **24378**		Analysis Date:		11/7/2010 2:11:46 AM	
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050								
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050								
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050								
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050								
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050								
Naphthalene	ND	mg/Kg	0.10								
1-Methylnaphthalene	ND	mg/Kg	0.20								
2-Methylnaphthalene	ND	mg/Kg	0.20								
Acetone	ND	mg/Kg	0.75								
Bromobenzene	ND	mg/Kg	0.050								
Bromodichloromethane	ND	mg/Kg	0.050								
Bromoform	ND	mg/Kg	0.050								
Bromomethane	ND	mg/Kg	0.15								
2-Butanone	ND	mg/Kg	0.50								
Carbon disulfide	ND	mg/Kg	0.50								
Carbon tetrachloride	ND	mg/Kg	0.10								
Chlorobenzene	ND	mg/Kg	0.050								
Chloroethane	ND	mg/Kg	0.10								
Chloroform	ND	mg/Kg	0.050								
Chloromethane	ND	mg/Kg	0.15								
2-Chlorotoluene	ND	mg/Kg	0.050								
4-Chlorotoluene	ND	mg/Kg	0.050								
cis-1,2-DCE	ND	mg/Kg	0.050								
cis-1,3-Dichloropropene	ND	mg/Kg	0.050								
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10								
Dibromochloromethane	ND	mg/Kg	0.050								
Dibromomethane	ND	mg/Kg	0.10								
1,2-Dichlorobenzene	ND	mg/Kg	0.050								
1,3-Dichlorobenzene	ND	mg/Kg	0.050								
1,4-Dichlorobenzene	ND	mg/Kg	0.050								
Dichlorodifluoromethane	ND	mg/Kg	0.050								
1,1-Dichloroethane	ND	mg/Kg	0.10								
1,1-Dichloroethene	ND	mg/Kg	0.050								
1,2-Dichloropropane	ND	mg/Kg	0.050								
1,3-Dichloropropane	ND	mg/Kg	0.050								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms **Work Order:** 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: mb-24378		*MBLK*				Batch ID:	**24378**	Analysis Date:		11/7/2010 2:11:46 AM	
2,2-Dichloropropane	ND	mg/Kg	0.10								
1,1-Dichloropropene	ND	mg/Kg	0.10								
Hexachlorobutadiene	ND	mg/Kg	0.10								
2-Hexanone	ND	mg/Kg	0.50								
Isopropylbenzene	ND	mg/Kg	0.050								
4-Isopropyltoluene	ND	mg/Kg	0.050								
4-Methyl-2-pentanone	ND	mg/Kg	0.50								
Methylene chloride	ND	mg/Kg	0.15								
n-Butylbenzene	ND	mg/Kg	0.050								
n-Propylbenzene	ND	mg/Kg	0.050								
sec-Butylbenzene	ND	mg/Kg	0.050								
Styrene	ND	mg/Kg	0.050								
tert-Butylbenzene	ND	mg/Kg	0.050								
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050								
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050								
Tetrachloroethene (PCE)	ND	mg/Kg	0.050								
trans-1,2-DCE	ND	mg/Kg	0.050								
trans-1,3-Dichloropropene	ND	mg/Kg	0.050								
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10								
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050								
1,1,1-Trichloroethane	ND	mg/Kg	0.050								
1,1,2-Trichloroethane	ND	mg/Kg	0.050								
Trichloroethene (TCE)	ND	mg/Kg	0.050								
Trichlorofluoromethane	ND	mg/Kg	0.050								
1,2,3-Trichloropropane	ND	mg/Kg	0.10								
Vinyl chloride	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: lcs-24378		*LCS*				Batch ID:	**24378**	Analysis Date:		11/7/2010 1:43:27 AM	
Benzene	1.009	mg/Kg	0.050	1	0	101	73.3	116			
Toluene	1.012	mg/Kg	0.050	1	0	101	90.5	117			
Chlorobenzene	1.033	mg/Kg	0.050	1	0.0068	103	93.6	113			
1,1-Dichloroethene	1.158	mg/Kg	0.050	1	0	116	68.4	131			
Trichloroethene (TCE)	0.9131	mg/Kg	0.050	1	0	91.3	64.6	100			
Sample ID: 1011126-02BMS		*MS*				Batch ID:	**24378**	Analysis Date:		11/7/2010 1:46:47 AM	
Benzene	0.9152	mg/Kg	0.050	1	0	91.5	62.3	118			
Toluene	0.8976	mg/Kg	0.050	1	0.0154	88.2	76.4	120			
Chlorobenzene	0.9041	mg/Kg	0.050	1	0.0063	89.8	78.1	125			
1,1-Dichloroethene	1.052	mg/Kg	0.050	1	0	105	60.9	128			
Trichloroethene (TCE)	0.8333	mg/Kg	0.050	1	0	83.3	56.2	102			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms **Work Order:** 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b5		*MBLK*					**Batch ID: R41938**		**Analysis Date:**		**11/3/2010 9:04:01 PM**
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	3.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
[redacted]on Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms **Work Order:** 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b5		*MBLK*				Batch ID: **R41938**		Analysis Date:	11/3/2010 9:04:01 PM		
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 100ng lcs		*LCS*				Batch ID: **R41938**		Analysis Date:	11/3/2010 8:37:59 PM		
Benzene	18.51	µg/L	1.0	20	0	92.5	84.6	109			
Toluene	18.15	µg/L	1.0	20	0	90.7	81	114			
Chlorobenzene	18.43	µg/L	1.0	20	0	92.1	85.2	113			
1,1-Dichloroethene	17.36	µg/L	1.0	20	0	86.8	79.6	124			
Trichloroethene (TCE)	18.03	µg/L	1.0	20	0	90.1	78.3	102			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms **Work Order:** 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: 1011126-02Bmsd		*MSD*				**Batch ID: 24447**		**Analysis Date:**		**11/11/2010 2:19:31 PM**	
Acenaphthene	1.395	mg/Kg	0.20	1.67	0	83.5	33.2	123	4.28	16.2	
4-Chloro-3-methylphenol	2.954	mg/Kg	0.50	3.33	0	88.7	17.4	119	10.7	20.2	
2-Chlorophenol	3.036	mg/Kg	0.20	3.33	0	91.2	25.3	117	8.96	30.6	
1,4-Dichlorobenzene	1.385	mg/Kg	0.20	1.67	0	83.0	24.6	111	3.01	20	
2,4-Dinitrotoluene	1.964	mg/Kg	0.50	1.67	0	118	29.4	137	5.55	30.7	
N-Nitrosodi-n-propylamine	1.385	mg/Kg	0.20	1.67	0	82.9	26.9	109	1.58	25.7	
4-Nitrophenol	3.494	mg/Kg	0.20	3.33	0	105	13.7	165	6.08	43.7	
Pentachlorophenol	2.770	mg/Kg	0.40	3.33	0	83.2	26.6	117	4.00	24.2	
Phenol	2.997	mg/Kg	0.20	3.33	0	90.0	26.6	105	5.04	29.5	
Pyrene	1.362	mg/Kg	0.20	1.67	0	81.6	25.8	117	1.55	32.1	
1,2,4-Trichlorobenzene	1.540	mg/Kg	0.20	1.67	0	92.2	30.8	119	5.80	19.5	
Sample ID: mb-24447		*MBLK*				**Batch ID: 24447**		**Analysis Date:**		**11/11/2010 11:51:44 AM**	
Acenaphthene	ND	mg/Kg	0.20								
Acenaphthylene	ND	mg/Kg	0.20								
Aniline	ND	mg/Kg	0.20								
Anthracene	ND	mg/Kg	0.20								
Azobenzene	ND	mg/Kg	0.20								
Benz(a)anthracene	ND	mg/Kg	0.20								
Benzo(a)pyrene	ND	mg/Kg	0.20								
Benzo(b)fluoranthene	ND	mg/Kg	0.20								
Benzo(g,h,i)perylene	ND	mg/Kg	0.20								
Benzo(k)fluoranthene	ND	mg/Kg	0.20								
Benzoic acid	ND	mg/Kg	0.50								
Benzyl alcohol	ND	mg/Kg	0.20								
Bis(2-chloroethoxy)methane	ND	mg/Kg	0.20								
Bis(2-chloroethyl)ether	ND	mg/Kg	0.20								
Bis(2-chloroisopropyl)ether	ND	mg/Kg	0.20								
Bis(2-ethylhexyl)phthalate	ND	mg/Kg	0.50								
4-Bromophenyl phenyl ether	ND	mg/Kg	0.20								
Butyl benzyl phthalate	ND	mg/Kg	0.20								
Carbazole	ND	mg/Kg	0.20								
4-Chloro-3-methylphenol	ND	mg/Kg	0.50								
4-Chloroaniline	ND	mg/Kg	0.50								
2-Chloronaphthalene	ND	mg/Kg	0.25								
2-Chlorophenol	ND	mg/Kg	0.20								
4-Chlorophenyl phenyl ether	ND	mg/Kg	0.20								
Chrysene	ND	mg/Kg	0.20								
Di-n-butyl phthalate	ND	mg/Kg	0.50								
Di-n-octyl phthalate	ND	mg/Kg	0.25								
Dibenz(a,h)anthracene	ND	mg/Kg	0.20								
Dibenzofuran	ND	mg/Kg	0.20								
1,2-Dichlorobenzene	ND	mg/Kg	0.20								
1,3-Dichlorobenzene	ND	mg/Kg	0.20								
1,4-Dichlorobenzene	ND	mg/Kg	0.20								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms **Work Order:** 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-24447		*MBLK*					**Batch ID: 24447**		**Analysis Date: 11/11/2010 11:51:44 AM**		
3,3'-Dichlorobenzidine	ND	mg/Kg	0.25								
Diethyl phthalate	ND	mg/Kg	0.20								
Dimethyl phthalate	ND	mg/Kg	0.20								
2,4-Dichlorophenol	ND	mg/Kg	0.40								
2,4-Dimethylphenol	ND	mg/Kg	0.30								
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50								
2,4-Dinitrophenol	ND	mg/Kg	0.40								
2,4-Dinitrotoluene	ND	mg/Kg	0.50								
2,6-Dinitrotoluene	ND	mg/Kg	0.50								
Fluoranthene	ND	mg/Kg	0.20								
Fluorene	ND	mg/Kg	0.20								
Hexachlorobenzene	ND	mg/Kg	0.20								
Hexachlorobutadiene	ND	mg/Kg	0.20								
Hexachlorocyclopentadiene	ND	mg/Kg	0.20								
Hexachloroethane	ND	mg/Kg	0.20								
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.20								
Isophorone	ND	mg/Kg	0.50								
2-Methylnaphthalene	ND	mg/Kg	0.20								
2-Methylphenol	ND	mg/Kg	0.50								
3+4-Methylphenol	ND	mg/Kg	0.20								
N-Nitrosodi-n-propylamine	ND	mg/Kg	0.20								
N-Nitrosodiphenylamine	ND	mg/Kg	0.20								
Naphthalene	ND	mg/Kg	0.20								
2-Nitroaniline	ND	mg/Kg	0.20								
3-Nitroaniline	ND	mg/Kg	0.20								
4-Nitroaniline	ND	mg/Kg	0.40								
Nitrobenzene	ND	mg/Kg	0.50								
2-Nitrophenol	ND	mg/Kg	0.20								
4-Nitrophenol	ND	mg/Kg	0.20								
Pentachlorophenol	ND	mg/Kg	0.40								
Phenanthrene	ND	mg/Kg	0.20								
Phenol	ND	mg/Kg	0.20								
Pyrene	ND	mg/Kg	0.20								
Pyridine	ND	mg/Kg	0.50								
1,2,4-Trichlorobenzene	ND	mg/Kg	0.20								
2,4,5-Trichlorophenol	ND	mg/Kg	0.20								
2,4,6-Trichlorophenol	ND	mg/Kg	0.20								
Sample ID: lcs-24447		*LCS*					**Batch ID: 24447**		**Analysis Date: 11/11/2010 12:21:16 PM**		
Acenaphthene	1.619	mg/Kg	0.20	3.34	0	48.5	40	106			
4-Chloro-3-methylphenol	3.579	mg/Kg	0.50	6.66	0	53.7	31.9	112			
2-Chlorophenol	3.441	mg/Kg	0.20	6.66	0	51.7	31.2	110			
1,4-Dichlorobenzene	1.531	mg/Kg	0.20	3.34	0	45.8	32.5	105			
2,4-Dinitrotoluene	2.364	mg/Kg	0.50	3.34	0	70.8	38.2	108			
N-Nitrosodi-n-propylamine	1.516	mg/Kg	0.20	3.34	0	45.4	30.9	98.9			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms **Work Order:** 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: lcs-24447		*LCS*				Batch ID:	**24447**	Analysis Date:	11/11/2010 12:21:16 PM		
4-Nitrophenol	4.041	mg/Kg	0.20	6.66	0	60.7	32.4	114			
Pentachlorophenol	2.854	mg/Kg	0.40	6.66	0	42.9	30.4	101			
Phenol	3.182	mg/Kg	0.20	6.66	0	47.8	27.9	105			
Pyrene	1.860	mg/Kg	0.20	3.34	0	55.7	31.9	103			
1,2,4-Trichlorobenzene	1.655	mg/Kg	0.20	3.34	0	49.6	33.1	112			
Sample ID: 1011126-02Bms		*MS*				Batch ID:	**24447**	Analysis Date:	11/11/2010 1:49:50 PM		
Acenaphthene	1.456	mg/Kg	0.20	1.67	0	87.2	33.2	123			
4-Chloro-3-methylphenol	3.289	mg/Kg	0.50	3.33	0	98.8	17.4	119			
2-Chlorophenol	3.321	mg/Kg	0.20	3.33	0	99.7	25.3	117			
1,4-Dichlorobenzene	1.428	mg/Kg	0.20	1.67	0	85.5	24.6	111			
2,4-Dinitrotoluene	2.076	mg/Kg	0.50	1.67	0	124	29.4	137			
N-Nitrosodi-n-propylamine	1.407	mg/Kg	0.20	1.67	0	84.2	26.9	109			
4-Nitrophenol	3.713	mg/Kg	0.20	3.33	0	111	13.7	165			
Pentachlorophenol	2.883	mg/Kg	0.40	3.33	0	86.6	26.6	117			
Phenol	3.152	mg/Kg	0.20	3.33	0	94.7	26.6	105			
Pyrene	1.384	mg/Kg	0.20	1.67	0	82.9	25.8	117			
1,2,4-Trichlorobenzene	1.632	mg/Kg	0.20	1.67	0	97.7	30.8	119			
Method: EPA Method 7471: Mercury											
Sample ID: 1011126-02AMSD		*MSD*				Batch ID:	**24471**	Analysis Date:	11/11/2010 1:31:22 PM		
Mercury	0.3132	mg/Kg	0.033	0.167	0.035	167	75	125	37.7	20	SR
Sample ID: MB-24471		*MBLK*				Batch ID:	**24471**	Analysis Date:	11/11/2010 1:22:36 PM		
Mercury	ND	mg/Kg	0.033								
Sample ID: LCS-24471		*LCS*				Batch ID:	**24471**	Analysis Date:	11/11/2010 1:24:20 PM		
Mercury	0.1719	mg/Kg	0.033	0.167	0	103	80	120			
Sample ID: 1011126-02AMS		*MS*				Batch ID:	**24471**	Analysis Date:	11/11/2010 1:29:35 PM		
Mercury	0.2139	mg/Kg	0.033	0.167	0.035	107	75	125			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: OCD Landfarms **Work Order:** 1011126

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Soil Metals											
Sample ID: 1011126-02AMSD		*MSD*				Batch ID:	**24461**	Analysis Date:		11/17/2010 10:08:42 AM	
Arsenic	25.86	mg/Kg	13	24.7	3.856	89.1	75	125	6.43	20	
Cadmium	23.48	mg/Kg	0.50	24.7	0	95.1	75	125	2.04	20	
Chromium	39.77	mg/Kg	1.5	24.7	20.5	78.0	75	125	4.57	20	
Copper	42.36	mg/Kg	1.5	24.7	21.5	84.4	75	125	1.87	20	
Lead	29.70	mg/Kg	1.3	24.7	8.612	85.4	75	125	6.53	20	
Selenium	ND	mg/Kg	13	24.7	0	45.8	75	125	0	20	S
Silver	23.23	mg/Kg	1.3	24.7	0	94.0	75	125	2.51	20	
Zinc	92.41	mg/Kg	13	24.7	95.88	-14.1	75	125	16.9	20	S
Sample ID: MB-24461		*MBLK*				Batch ID:	**24461**	Analysis Date:		11/17/2010 9:12:03 AM	
Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Chromium	ND	mg/Kg	0.30								
Copper	ND	mg/Kg	0.30								
Iron	2.148	mg/Kg	1.0								
Lead	ND	mg/Kg	0.25								
Manganese	ND	mg/Kg	0.10								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Uranium	ND	mg/Kg	5.0								
Zinc	ND	mg/Kg	2.5								
Sample ID: LCS-24461		*LCS*				Batch ID:	**24461**	Analysis Date:		11/17/2010 9:15:17 AM	
Arsenic	25.47	mg/Kg	2.5	25	0	102	80	120			
Barium	24.11	mg/Kg	0.10	25	0	96.4	80	120			
Cadmium	24.34	mg/Kg	0.10	25	0	97.4	80	120			
Chromium	24.90	mg/Kg	0.30	25	0	99.6	80	120			
Copper	26.09	mg/Kg	0.30	25	0.0945	104	80	120			
Iron	28.43	mg/Kg	1.0	25	2.148	105	80	120			B
Lead	23.93	mg/Kg	0.25	25	0	95.7	80	120			
Manganese	24.24	mg/Kg	0.10	25	0	97.0	80	120			
Selenium	24.31	mg/Kg	2.5	25	0.925	93.5	80	120			
Silver	24.28	mg/Kg	0.25	25	0.0238	97.0	80	120			
Uranium	26.81	mg/Kg	5.0	25	0	107	80	120			
Zinc	24.83	mg/Kg	2.5	25	0.5498	97.1	80	120			
Sample ID: 1011126-02AMS		*MS*				Batch ID:	**24461**	Analysis Date:		11/17/2010 10:02:13 AM	
Arsenic	27.58	mg/Kg	13	24.75	3.856	95.9	75	125			
Cadmium	23.00	mg/Kg	0.50	24.75	0	93.0	75	125			
Chromium	41.63	mg/Kg	1.5	24.75	20.5	85.4	75	125			
Copper	41.57	mg/Kg	1.5	24.75	21.5	81.1	75	125			
Lead	27.82	mg/Kg	1.3	24.75	8.612	77.6	75	125			
Selenium	ND	mg/Kg	13	24.75	0	42.0	75	125			S
Silver	22.65	mg/Kg	1.3	24.75	0	91.5	75	125			
Zinc	78.01	mg/Kg	13	24.75	95.88	-72.2	75	125			S

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU | Date Received: 11/3/2010

Work Order Number 1011126 | Received by: AMF

Checklist completed by: _____ 11/3/10 | Sample ID labels checked by: KT

Signature | Date | Initials

Matrix: | Carrier name Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	<2 >12 unless noted below.
Container/Temp Blank temperature?	2.4°	<6° C Acceptable If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining

Mailing Address: Route 3 Box 7

Gallup, NM 873-1

Phone #: 505 722-3833

email or Fax#: 505 722-0210

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: OCD Landfarms

Project #: 697-039-001

Project Manager: Ed Riege

Sampler: G. Price

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides 300.1	NMAC list (attached)			Air Bubbles (Y or N)
11/2/10	1015	S	CentralOCD-01-110210	3-8oz	None	1011126-01	X			X								X	X			
11/2/10	1120	S	CentralOCD-02-110210			-2	X			X								X	X			
11/2/10	1145	S	CentralOCD-03-110210			-3	X			X								X	X			
11/2/10	1210	S	CentralOCD-04-110210			-4	X			X								X	X			
11/2/10	1315	S	NEOCD-01-110210			-5	X			X								X	X			
11/2/10	1340	S	NEOCD-02-110210			-6	X			X								X	X			
11/2/10	1400	S	NEOCD-03-110210			-7	X			X								X	X			
11/2/10	1430	S	NEOCD-04-110210			-8	X			X								X	X			
11/2/10	1120	S	MS/MSD-110210			-9	X			X								X	X			
11/2/10		S	BD-1-110210			~~-10~~ -9	X			X								X	X			
11/2/10	1455	W	FB-110210	3 VOA	HCL	-10	X															
11/2/10	1450	W	EB-110210	3 VOA	HCL	-11	X															

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/3/10	11/3/10			11/3/10	9:35
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: MS/MSD from CentralOCD-02-110210
Please CC Grant Price w/ results
gprice@Trihydro.com
307-745-7474

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Western Refining

Mailing Address: Route 3 Box 7
Gallup, NM 87301

Phone #: 505 722-3833

email or Fax#: 505 722-0210

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: OCD Landfarms

Project #: 697-034-001

Project Manager: Ed Riege

Sampler: G. Price

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.7°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides	NMAC 1.1 (as required)			Air Bubbles (Y or N)
1/2/10	1440	S	NEOCD-closure-110210	3-8 oz	none	1011126-12	X		X	X								X	X			
″	″	W	Trip Blank	2 VOA	HCL	-13	X															
			End of Record																			

Date: 1/3/10 Time: 9:35 Relinquished by:

Received by: Date: 11/3/10 Time: 9:25

Date: Time: Relinquished by:

Received by: Date: Time:

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Western Refining Gallup

Air Quality Permit 0633M7-R3 Condition 3s, 4p and 3r

Compliance Determination Method For VOC Emission Limits
MONTHLY SAMPLING BTEX

	IN	OUT	
	ppb benzene	**ppb benzene**	**Gallons (G) TOTAL FLOW/month**
Month	Z84-V7 inlet	Z84-V7 outlet	
Jan-10	36500	6175	1,160,640
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	6450	4220	10,090,080
Feb-10	Z84-V7 inlet	Z84-V7 outlet	
	23500	3125	1,088,640
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	7750	86.75	6,773,760
Mar-10	Z84-V7 inlet	Z84-V7 outlet	
	25450	1045	1,249,920
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	10150	187	7,276,320
Apr-10 *	Z84-V7 inlet	Z84-V7 outlet	
	23567	2807	1,252,800
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	5525	59.25	7,084,800
May-10	Z84-V7 inlet	Z84-V7 outlet	
	566500	963	720,936
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	2950	43	6,979,262
Jun-10	Z84-V7 inlet	Z84-V7 outlet	
	20800	1030	692,495
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	12180	660.6	7,066,742
Jul-10	Z84-V7 inlet	Z84-V7 outlet	
	25000	1543	700,848
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	3650	87	7,568,712
Aug-10	Z84-V7 inlet	Z84-V7 outlet	
	19000	1200	502,200
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	2200	0	7,701,292
Sep-10	Z84-V7 inlet	Z84-V7 outlet	
	16000	5900	673,920
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	10000	140	8,284,032
Oct-10	Z84-V7 inlet	Z84-V7 outlet	
	13000	4700	665,136
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	3300	370	7,690,133
Nov-10	Z84-V7 inlet	Z84-V7 outlet	
	19000	11000	643,680
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	3900	370	6,963,840
Dec-10	Z84-V7 inlet	Z84-V7 outlet	
	18000	1200	584,784
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	2900	370	6,778,584

sample contained high amounts of benzene indicating it was

QUARTERLY SAMPLING TOTAL VOC

QTR 10	Z84-V7 inlet	Z84-V7 outlet	
	57430	5818	3,499,200
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	33920	2564	24,140,160
2nd QTR 10	Z84-V7 inlet	Z84-V7 outlet	
	2261900	3479	2,666,231
	Z84-V1-2 inlet	Z84-V1-2 outlet	

	14031	2696	21,130,804
3rd QTR 10	Z84-V7 inlet	Z84-V7 outlet	
	80630	8089	2,114,279
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	23920	792	23,554,036
4th QTR 10	Z84-V7 inlet	Z84-V7 outlet	
	50000	16900	1,895,543
	Z84-V1-2 inlet	Z84-V1-2 outlet	
	10100	1110	21,432,557

API OIL WATER SEPARATOR Z84-T5 Condition 3.t.

	Z84-T5 Flow (gal)
1st QTR 10	24,140,160
2nd QTR 10	21,130,804
3rd QTR 10	23,554,036
4th QTR 10	21,432,557
	90,257,557