HIP - __124__

GENERAL CORRESPONDENCE

YEAR(S): 2013 to Present

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division

September 19, 2013

Ms. Shiver Nolan
Enterprise Products Operating LLC
P.O. Box 4324
Houston, Texas 77210

Re: Hydrostatic Test Discharge Permit
Permit: HIP-124
Enterprise Products Operating, LLC
Western Expansion Pipeline III, Segment 2A
Locations: Unit H of Section 5, Township 20 North, Range 5 West, NMPM, McKinley County, New Mexico

Dear Ms. Nolan:

The New Mexico Oil Conservation Division (OCD) has received Enterprise Products Operating LLC's (Enterprise) notice of intent, dated September 16, 2013 and received by OCD on September 18, 2013, for authorization to discharge approximately 450,000 gallons of wastewater generated from a hydrostatic test of a new 16-inch diameter natural gas gathering system transmission pipeline approximately 8.7 miles (46,150 feet) long, located approximately 33 miles west of Cuba, New Mexico. The proposed discharge/collection /retention location is within Enterprise's pipeline easement right-of-way, located within Unit H of Section 5, Township 20 North, Range 5 West, NMPM, McKinley County, New Mexico. The submittal provided the required information in order to deem the application "administratively" complete. OCD approves the Farmington Daily Times as the newspaper of general circulation for the published notice and the discharge and/or collection location (within Enterprise's pipeline easement right-of-way) and the post office in Cuba, New Mexico as proposed posting locations.

Therefore, the July 2006 New Mexico Water Quality Control Commission (WQCC) regulations notice requirements (20.6.2.3108 NMAC) must be satisfied and demonstrated to the OCD. The hydrostatic test discharge event shall not be initiated until Enterprise's and OCD's notice periods pass, the permit is issued, and the additional permit fee is paid, if applicable.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec
Mr. James White, Enterprise Products Operating, LLC, Houston, TX 77210-4324
Ms. Runell Seale, Enterprise Products Operating, LLC, Farmington, NM 87401

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of Check No. 689545 dated 8/9/13

or cash received on 9/18/13 in the amount of $ 700.00

from KLEINFELDER WEST, INC.

for HIP-124

Submitted by: BRAD JONES Date: 9/19/13

Submitted to ASD by: LUPE SHERMAN Date: 9/19/13

Received in ASD by: _____ Date: _____

Filing Fee ✓ New Facility: _____ Renewal: _____

Modification _____ Other ✓ PERMIT FEE

Organization Code 521.07 Applicable FY 14

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

NEW MEXICO ENVIRONMENT DEPARTMENT - ALBUQUERQUE FIELD OFFICE DAILY CHECK RECEIPT LOG

DATE RECEIVED	WALK-IN	MAIL	NAME ON CHECK	DATE OF CHECK	CHECK/MONEY ORDER#	PROGRAM ACCOUNT CODE	AMOUNT OF CHECK	DATE DEPOSITED	DEPOSITED BY:
9/18/13		✓	KLEINFELDER WEST, INC	8/9/13	689545		$700.00		
TOTAL							$700.00		

REVENUE TRANSMITTAL SHEET

Description	Fund	Dept.	Share Acct	Sub Acct	Amount
Liquid Waste	34000	Z3200	496402		
Water Recreation Facilities	40000	Z8501	496402		
Food Permit Fees	99100	Z2600	496402		
OTHER	34100	232900		23290200	

Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS HOLDINGS LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

September 16, 2013

VIA Fed Ex

Mr. Brad Jones
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Jones:

RE: Enterprise Products Operating LLC
Submittal of Notice of Intent to Discharge Hydrostatic Test Water
Western Expansion Pipeline III, Segment 2A
McKinley and Sandoval Counties, New Mexico

Enterprise Products Operating LLC (Enterprise) will be constructing Segment 2A of the Western Expansion Pipeline III as an expansion to their natural gas gathering system. Please find enclosed an application for authorization to discharge hydrostatic test water following hydrostatic testing of the new pipeline. The enclosed application includes the requested revisions to the unofficial drafts that you reviewed.

Thank you for your assistance with this request. If you have any questions or require additional information, please feel free to call Enterprise's environmental consultant, Ms. Eileen Shannon, 505.307.0722, or myself at 713.392.2458.

Sincerely,

James G. White
Sr. Environmental Scientist

cc: Runell Seale, Enterprise
Shiver Nolan, Enterprise

P.O. BOX 4324
HOUSTON, TEXAS 77210-4324
713.381.6500

1100 LOUISIANA STREET
HOUSTON, TEXAS 77002-5227
www.enterpriseproducts.com

KLEINFELDER
Bright People. Right Solutions.

September 16, 2013
Project No.: 134288

Mr. Brad Jones
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 St. Francis Drive
Santa Fe, NM 87505

Subject: Submittal of a Notice of Intent to Perform Hydrostatic Test
WEP III – Segment 2A
McKinley and Sandoval Counties, New Mexico

Dear Mr. Jones:

On behalf of Enterprise Products Operating LLC (Enterprise), Kleinfelder West, Inc. (Kleinfelder) is submitting this Notice of Intent (NOI) for a hydrostatic test to be conducted on Segment 2A of Enterprise's Western Expansion Pipeline III (WEP III).

Kleinfelder has included the required information for the NOI as stated in the "Guidelines for Hydrostatic Test Dewatering" dated January 11, 2007. Attached to this NOI are the following:

- Background Information;
- Notice of Intent Plan;
- Figure 1 – New Enterprise Pipeline WEP III Segment 2A Discharge Location;
- Figure 2 – New Enterprise Pipeline, WEP III Segment 2A;
- Figure 3 – Dissipation and Discharge Area;
- Appendix A - Certification of Siting Criteria;
- Appendix B – Water Feature, Water Well Information and Floodplain Information;
- Appendix C – Area Mine Information;
- Appendix D - Geology;
- Appendix E – Area Landownership;
- Appendix F – Public Notice;
- Appendix G – Electro-Coagulation Process Information; and
- Appendix H – Horn Well Analytical Data.

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A check totaling $700 made out to the New Mexico Water Quality Management Fund is included with this NOI for the $100 filing fee and the $600 permit fee.

Kleinfelder prepared this NOI in a manner consistent with the level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. The information provided in this document is based on our understanding of the information provided by Enterprise.

Should you have any questions, please feel free to contact Eileen Shannon (Kleinfelder) at 505.344.7373 or Jimmy White (Enterprise) at 713.381.1785.

Respectfully submitted,

KLEINFELDER WEST, INC.

Melissa Cote
Professional

Reviewed by:

Eileen L. Shannon, PG
Project Manager

cc: James White, Enterprise Products Operating LLC, PO Box 4324, Houston, TX 77210

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Background Information

- The U.S. Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA) requires periodic pressurized tests on all DOT-regulated pipelines and all newly installed pipelines to verify the integrity and safety of pipeline systems. Because the pipeline is part of a natural gas gathering system, waste water generated during hydrostatic testing is classified as RCRA-exempt waste water and does not require management as a RCRA waste or disposal at a RCRA-approved facility.
- The Enterprise Western Expansion Pipeline (WEP) III line is a new, welded, steel 16-inch diameter line. The section to be hydrostatically tested, Segment 2A of the WEP III pipeline, is 8.7 miles or 46,150 feet long (Figure 1);
- The pipeline is part of a gathering system that transports natural gas from the Piceance and San Juan Basins to processing facilities located in Hobbs, New Mexico and Houston, Texas;
- The source water for the hydrostatic testing is the Horn well (latitude 35.965984°, longitude -107.176570°)
- The water will be placed into the pipeline at approximately MP 350.2 (Figure 1) on or about October 22, 2013. Hydrostatic testing of Segment 2A will be conducted from MP 341.5 to 350.2. After the testing, the water will be discharged at MP 350.2 on or about November 1, 2013.
- Per NMAC 20.6.2.3108, a sample of the public notice is included in Appendix F; and
- Per NMAC 20.6.2.3108, public notice will be made in English by the following methods:
    1. A 2 feet by 3 feet in size sign will be posted at the discharge location;
    2. Written notice will be posted at the Cuba, New Mexico post office;
    3. Written notice of the discharge by mail to owners of record of all properties within a 1/3 mile distance from the boundary of the property where the discharge site is located;
    4. The notice will be sent by certified mail, return receipt requested, to the owner of the discharge site; and
    5. A synopsis of the notice will be published in a display ad at least three inches by four inches in size in *The Farmington Daily Times* newspaper. Public notice is published every day, and the paper requires the information four to five days prior to publication.

Notice of Intent Plan

On behalf of Enterprise, Kleinfelder is submitting this NOI plan as outlined in NMOCD Guidance document, "Guidelines for Hydrostatic Test Dewatering," (revised January 11, 2007). The NOI plan includes the following items:

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Item a. Name and address of the proposed discharger:

Legally Responsible Party	Mr. Leonard W. Mallett, Group Sr. VP, Engineering POC: Ms. Shiver Nolan, Sr. Compliance Administrator P.O. Box 4324 Houston, Texas 77210 713.381.6595
Local Representative	Ms. Runell Seale Enterprise Products Operating LLC 614 Reilly Ave. Farmington, NM 87401 505.599.2124

Item b. Location of the discharge, including a street address, if available, and sufficient information to locate the facility with respect to surrounding landmarks:

The section of the pipeline to be tested is located in Sandoval and McKinley Counties. Water from the hydrostatic testing will be discharged to the ground in the 125-foot construction right-of-way (ROW) at the northern portion of WEP III Segment 2A at MP 350.2. The location of the pipeline to be hydrostatically tested and the proposed discharge location are shown on Figure 1. The dimension of the discharge area is approximately 360 feet long by 125 feet wide, or 45,000 square feet.

The proposed hydrostatic discharge site is located approximately 33 miles west of Cuba, New Mexico. Directions to the discharge site from Cuba, New Mexico are:

- From the intersection of US-550 S and NM 126 S., head south on US-550 for 0.9 miles;
- Turn right onto NM-197 S for 15.8 miles;
- Turn right onto Indian Service Route 474 for 7.6 miles;
- Continue onto Indian Service Route 475 for 3.9 miles;
- Continue onto Indian Service Route 471 for 1.8 miles;
- Take a slight left to stay on Indian Service Route 471 for 3.3 miles;
- Turn right on unnamed dirt road and continue for approximately 0.5 miles;
- The site is on the right.

The approximate coordinates for the discharge area location are: Latitude 35.996084; Longitude -107.381934.

Item c. Legal description of the discharge location:

The discharge location is located in the SE/4 of the NE/4 of Section 5, Township 20 North, Range 5 West (Figure 1). The latitude and longitude coordinates are provided in *item b*.

Item d. Maps (site-specific and regional) indicating the location of the pipelines to be tested:

- Figure 1 – Regional map showing topography, the pipeline section undergoing testing, and the hydrostatic test water discharge location.
- Figure 2 – Site-specific map showing the hydrostatic test water discharge area.

Item e. A demonstration of compliance to the following siting criteria or justification for any exceptions:

Shapefiles were downloaded from various electronic sources and were included in a Geographic Information System (GIS) database for preparation of this NOI. The maps generated from this database were reviewed between June 3 and August 5, 2013. Detailed references for the various shape files are included in the Reference section. Sources used for preparation of the maps in this NOI are included on the individual figures.

i. Within 200 feet of a watercourse, lakebed, sinkhole, or playa lake;

No watercourses, lakebeds, sinkholes, or playa lakes were observed within 200 feet of the discharge area during the site visit (Appendix A). A search of watercourses, lakebeds, sinkholes, and playa lakes in the vicinity of the discharge area was completed by reviewing a topographic map and using the GIS database. None were indicated during the review. A copy of the site-specific topographic map is included in Appendix B, Figure B-1.

ii. Within an existing wellhead protection area or 100-year floodplain;

No springs were identified on the topographic map within 1,000 feet of the discharge area (Figure B-1, Appendix B) and no springs were observed during the site inspection (Appendix A). No water supply wells are located within 1,000 feet of the discharge area (Figure B-2, Appendix B).

The New Mexico Office of the State Engineer (OSE) website was checked for water supply wells located in the vicinity of the site. Based on data obtained from the OSE website, accessed on July 17, 2013, one well (RG 29678) is located approximately 0.6 miles northwest of the discharge area (Figure B-2, Appendix B).

According to the Federal Emergency Management Administration DFIRM panel 35031C0675E, the discharge area is not located within a 100-year floodplain. The discharge and surrounding areas are located in Zone X (Figure B-3 in Appendix B).

iii. Within, or within 500 feet of, a wetland;

No wetlands were observed during the site inspection (Appendix A). A topographic map provided by the U.S. Fish and Wildlife Service National Wetlands Inventory database was reviewed for wetlands in the vicinity of the site. Wetlands were not observed in or within 500 feet of the perimeter of the discharge area. A copy of the topographic map is included in Appendix B, Figure B-1.

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iv. Within the area overlying a subsurface mine; or

A map generated from the New Mexico Mining and Minerals Division GIS database was reviewed for active mines. No active mines were noted at or in the vicinity of the proposed discharge area (Figure C-1 in Appendix C). Mr. Mike Tompson, with the New Mexico Abandoned Mine Lands Program, was contacted on July 16, 2013 to assess the presence of abandoned subsurface mines in the vicinity of the proposed discharge area. According to Mr. Tompson, there is no record of abandoned subsurface mines within a half mile radius of the proposed discharge site (see email, Appendix C).

v. Within 500 feet from the nearest permanent residence, school, hospital, institution or church.

No permanent residences, school, hospital, institution or church were noted on aerial photographs of the area (Figure 2), nor were they noted during the site visit (Appendix A).

Item f. A brief description of the activities that produce the discharge;

Pressure testing with water, also known as hydrostatic testing, is one of the tools pipeline operators use to verify pipeline integrity. The purpose of hydrostatic testing of a pipeline is to determine the extent to which potential defects might threaten the pipeline's ability to sustain maximum allowable operation pressure. Because this is new piping, previous contents of the pipe do not need to be cleared. Potable water will be introduced into the pipeline and then the pipeline will be pressurized to a pressure greater than maximum operating pressure for approximately eight hours. If leaks or breaks occur, the pipeline is repaired or the affected piping is replaced, and then re-tested. Once the test is complete, the water will be discharged from the pipeline into the dissipation and discharge system.

Item g. The method and location for collection and retention of fluids and solids;

Because the piping is new, solids are not anticipated to be produced as a result of the hydrostatic testing. Once hydrostatic testing has been completed, water will be tested for water quality, as described in *item j*. Water will then be held in the pipe or until test results received and approved. Once approval to discharge has been received, the test water will be allowed to flow from the pipeline into the 125-foot right-of-way.

Item h. A brief description of best management practices to be implemented to contain the discharge onsite and to control erosion;

Non-woven geotextile fabric will be installed beneath the dissipation structure to prevent scouring. Hay bales will be used to control erosion as the water is discharged from the pipeline at a rate of approximately 1,500 gallons per minute (gpm) into the hydrostatic waste water dissipation and discharge system. A connector pipe is attached to the end of the pipeline and to a baffle "T" located within the dissipation structure. Pipeline water will gradually be released and allowed to flow onto the 125-foot ROW. The dissipation and discharge structure will be built to maintain the proper flow rate to avoid scouring the landscape. A diagram of the hydrostatic waste water dissipation and discharge system is shown in Figure 3.

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Item i. A request for approval of an alternative treatment, use, and/or discharge location (other than the original discharge site), if necessary;

No alternate use or discharge location is proposed.

If hydrostatic test water analytical results exceed the greater of the standards of NMAC 20.6.2.3103 for discharge, the test water will be treated using an electro-coagulation cleaning process and a separate filtering system. This process is described in Appendix G.

After the electro-coagulation process is completed, the water will be tested again as described in Appendix G. If it does still not meet the greater of standards of NMAC 20.6.2.3103, the water will be hauled and disposed of as described in *item k.*

Item j. A proposed hydrostatic test wastewater sampling plan;

Enterprise requests that it not be required to test for Radium 226/228. The Horn well, sampled on April 3, 2013, has the following results for radium (in pCi/L): Radium – 226 at 0.298 ± 0.336; and Radium – 228 at 0.311 ± 0.354. These levels are below the 30 pCi/L standard in NMAC 20.6.2.3103.

Prior to discharge, Enterprise will collect and analyze a sample of the water used in the hydrostatic testing. The sample will be collected from the discharge location (MP 350.2) and analyzed using the following methods.

SAMPLING PLAN FOR COMPLIANCE WITH NMAC 20.6.3103 (A), (B), (C)		
ANALYTES	METHOD	BOTTLE TYPE/PRESERVATIVE
Volatile Organics	8260B	3 x 40 ml VOA's / HCl
Ethlylene dibromide	504.1	2 x 40 ml VOA's / $Na_2S_20_3$
Polychlorinated Biphenols	8082	2 x liter amber / unpreserved
Polynuclear Aromatic Hydrocarbons	8310	1 x liter amber / unpreserved
Phenols	9067	1 x liter amber / H_2S0_4
Anions, TDS, pH	300.0 SM 2540C SM 4500-H+B	1 x 500 ml plastic / unpreserved 1 x 125 ml plastic / H_2S04
Mercury	245.1	1 x 500 ml plastic / $HN0_3$
Dissolved Metals	200.7 / 200.8	1 x 125 ml plastic + filter & syringe / HNO_3
Total Cyanide	335.4	1 x 500 ml plastic amber / NaOH

Once the results have been received, they will be forwarded to the NMOCD. Upon NMOCD concurrence that the discharge water meets the water quality standards of NMAC 20.6.2.3103, Enterprise will discharge the water in accordance with the approved discharge permit.

Item k. A proposed method of disposal of fluids and solids after test completion, including closure of any pits, in case the water generated from test exceeds the standards as set forth in Subsections A, B, and C of the 20.6.2.3103 NMAC (the New Mexico Water Quality Control Commission Regulations);

As described in Appendix G, if after the electro-coagulation process, if the test water still exceeds discharge requirements, the water will be transferred into DOT-approved tanker trucks by hoses. The water will be transported from the project site in tanker trucks, by NMOCD-approved haulers, to one of the following waste water disposal companies:

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- Basin Disposal, Inc. (API 30-045-26862, Disposal Well No. 1: IPI-149-0) in Aztec, New Mexico;
- Agua Moss, LLC (Permit # UIC-I-005) on Crouch Mesa, in Bloomfield New Mexico; or
- Gandy Marley, Inc. (Permit # NM1-19-0) on Highway 380 between Tatum and Roswell, New Mexico.

The water will be transported by one or more of the following NMOCD-approved haulers:

- Dawn Trucking Co. (C133-31);
- M&R Trucking, Inc. (C133-399);
- Three Rivers Trucking, Inc. (C133-335); or
- Triple S Trucking Co., Inc. (C133-372).

Any solids generated using the electro-coagulation process will be disposed of at one of the following NMOCD-approved commercial surface waste management facilities:

- Gandy Marley Inc., in Chaves County (Permit No. 19);
- Lea Land Inc. in Lea County (Permit No. 24); or
- R360 Permian Basin LLC (formerly Controlled Recovery Inc.) in Lea County (Permit No. 6).

C-138 manifest forms will be prepared and provided with all liquid and solid waste that is hauled for disposal.

Item l. A brief description of the expected quality and volume of the discharge;

The volume of the hydrostatic test water is expected to be discharged is approximately 450,000 gallons. The source of water used for the hydrostatic test will be water from the Horn well. The laboratory analytical results are included in Appendix H. According to these results, only one constituent exceeds the NMAC 20.6.2.3103 standard:

- pH (9.54) (NMAC 20.6.2.3103 standard is between 6 and 9).

New piping will be tested which should not impact the quality of the water to be discharged.

Item m. Geological characteristics of the subsurface at the proposed discharge site;

Information regarding the soil characteristics was obtained from the United States Department of Agriculture (USDA) soil survey (USDA, 2005). Based on that information, soils in the area are dominated by Tsosie-Councelor-Blancot fine sandy loam and Doakum-Betonnie complex surface soils. The parent material of Tsosie-Councelor-Blancot soils consists of well-drained eolian material and fan and stream alluvium-derived from sandstone and shale. Tsosie-Councelor-Blancot soils were identified in the soil survey on stream terraces on valley floors and alluvial fans on valley sides. The parent material of Doakum-Betonnie complex soils consists of well-drained eolian material and fan and slope alluvium derived from sandstone and shale. Doakum-Betonnie complex soils were identified in the soil survey on ridge and hill side slopes, fan remnants on valley sides, dipslopes on cuestas, and summits on mesas.

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The surface soil overlies the Nacimiento Formation (Tn) of the San Juan Basin (Figure D-1, Appendix D). The Nacimiento Formation is comprised primarily of sandstone, with some shale and conglomerates (USGS, 2013). Karst was not identified at or in the area surrounding the discharge (Figure D-2 in Appendix D).

Item n. The depth to and total dissolved solids concentration of the ground water most likely to be affected by the discharge; and

Based on data obtained from the OSE and Go-Tech websites, accessed on June 19, 2013, one well, RG 29678, is located approximately 0.6 miles northwest of the discharge area. The depth to water in this well was reported as 769 feet below ground surface. Based on the elevation data provided on the topographic map, the ground surface elevation at the RG 29678 well location is approximately 6,840 feet above mean sea level (amsl). The ground elevation at the discharge location is approximately 6,843 feet amsl, therefore, the depth to water is anticipated to be similar to the depth to water observed at the RG 29678 location. Water quality parameters were not reported in the OSE and Go-Tech websites for this well. Regional information from a literature search indicated the following:

- Total dissolved solids (TDS) concentrations in the region generally range from 400 to 2,070 parts per million (Whitcomb, et. al, 1950 and Brod, 1979).

Item o. Identification of landowners at, and adjacent to, the discharge collection/retention site. Landowners within 1/3-mile of the boundary of the discharge point or temporary frac tank storage area within the Enterprise pipeline easement:

According to GIS database the landowner of property where the discharge area is located is:

Bureau of Land Management
Cuba Field Station
P.O. Box 670
County Road 11, Suite C.
Cuba, NM 87013
Attn: Cynthia D. Sandoval, Reality Specialist

Property owners within a 1/3 mile radius of proposed discharge area are listed below and are shown on Figure E-1 in Appendix E.

Navajo Nation
Elizabeth Stoney of the Ojo Encino Chapter Land Board
HCR 79 Box 1500
Ojo Encino, NM 87013

State of New Mexico
State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

References

Go-Tech, New Mexico Water database (NM WAIDS, accessed June 19, 2013, http://octane.nmt.edu/waterquality/data/gwatersearch.aspx.

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Whitcomb, H.A., Repenning, C.A., and New Mexico State Engineer, 1950, "Memorandum on location of proposed well 15 miles north of Crown Point, McKinley County, New Mexico", Open-File Report 50-10.

Brod, R.C. and the New Mexico Institute of Mining and Technology, 1979, "Hydrogeology and Water Resources of the Ambrosia Lake-San Mateo Area, McKinley and Valencia Counties, New Mexico".

Office of the State Engineer (OSE) database search accessed in June 19, 2013, http://nmwrrs.ose.state.nm.us/nmwrrs/index.html.

United States Department of Agriculture, Natural Resources Conservation Service, United States Department of the Interior, Bureau of Land Management, Bureau of Indian Affairs, and the New Mexico Agricultural Experiment Station, 2005. "Soil Survey of McKinley County Area, New Mexico, McKinley County and Parts of Cibola and San Juan Counties".

United States Geological Survey, Mineral Resources On-Line Spatial Data, accessed June 21, 2013, http://mrdata.usgs.gov/geology/state/state.php?state=NM

GIS References

NM Topographic 7.5' quadrangle maps
- Deer Mesa
- Johnson Trading Post
- Lybrook SE
- Mule Dam
- Ojo Encino Mesa
- Pueblo Alto Trading Post
- Rincon Marquez
- Star Lake
- Taylor Ranch
- Tinian
- Whitehorse Rincon
- Wolf Stand

Basemap for inset on Figure 1
- -ESRI World Street Map. Sources: ESRI, DeLorme, NAVTEQ, TomTom, USGS, Intermap, iPC, NRCAN, ESRI Japan, METI, ESRI China (Hong Kong), ESRI (Thailand)

Aerial imagery on Figure 2,
- ESRI World Imagery; ESRI DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community. Date of image: 05/22/2010

State and County boundaries
- ESRI Street Map North America dated August 17, 2010

Cities and Towns; Urban areas
- *TIGER urban areas 2010 (tl_2010_35_place10.shp) 2010 Census data
- ESRI Street Map North America dated August 17, 2010

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PLSS
- *BLM GIS dataset dated June 3, 2013

Surface waters (streams and water bodies)
- *National Hydrography Dataset, USGS, GIS dataset downloaded May 4, 2011

Wetlands
- *National Wetlands Inventory, USF&WS, GIS dataset downloaded May 4, 2011

OSE Wells
- *New Mexico Office of the State Engineer, Excel spreadsheet dated of July 2011
- Unable to find the USGS wells listed on the PRRC references sheet

Floodplains, Segment 2A
- *S_FLD_HAZ_LN downloaded from New Mexico Resource Geographic Information System Program, http://rgis.unm.edu/ GIS shapefile downloaded June 5, 2013
- FEMA DFIRM panels 35043C0250D and 35043C0275D dated 3/18/2008; 35031C0675E, 35031C0700E dated 2/17/2010

Mines
- New Mexico Mining and Minerals Division, February 2012
- *Coal mine permit boundaries shapefile from RGIS, downloaded June 17, 2013
- Potash areas from BLM Carlsbad Field Office basemap, downloaded May 8 , 2012

Geology
- USGS OFR 2005-21351. Stoeser, D.B., G.N. Green, L.C. Morath, W.D. Heran, A.B. Wilson, D.W. Moore, and B.S. Van Gosen, 2005. Preliminary Integrated Geologic Map Databases for the United States; Central States: Montana, Wyoming, Colorado, New Mexico, Kansas, Oklahoma, Texas, Missouri, Arkansas, and Louisiana, - The State of New Mexico. U.S. Geological Survey Open-File Report 2005-1351
- USGS Fault and Fold Database, GIS shapefiles downloaded November 3, 2010
- BLM Carlsbad Field Office GIS Basemap GIS dataset downloaded on May 8, 2012

Karst
- *USGS OF 2004-1352. Tobin, Bret D., and David J. Weary, 2004. Digital Engineering Aspects of Karst Map: A GIS version of Davies, W.E., Simpson, J.H., Ohlmacher, G.C., Kirk, W.S., and Newton, E.G., 1984, Engineering aspects of karst: U.S. Geological Survey, National Atlas of the United States of America, scale 1:7,500,000. U.S. Geological Survey Open-File Report 2004-1352
- BLM Carlsbad Field Office GIS Basemap, Caves potential GIS shapefile downloaded on May 8, 2012
- BLM NM GIS dataset, Karst potential, GIS shapefile provided by BLM on April 3, 2012

Land Ownership
- BLM NM GIS dataset downloaded June 3, 2013

*same source as used on Pit Rule Petroleum Recovery Research Center database (PRRC) http://ford.nmt.edu/prrc_MF/index5.html

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FIGURES

Source: ESRI World Street Map

LEGEND

- DISCHARGE LOCATION
- MILE POST
- APPROXIMATE SEGMENT OF PIPELINE TO BE HYDROSTATICALLY TESTED

Date: 8/26/2013 User: KHagan

Source: USGS 7.5' Quadrangle Topographic Maps: Lybrook SE, Mule Dam, Deer Mesa, Taylor Ranch, Pueblo Alto Trading Post, Star Lake, Ojo Encino Mesa, Johnson Trading Post, Whitehorse Rincon, Rincon Marquez, Tinian, Wolf Stand, NM Centerline: SPREAD3_IFC_8470SEG3A_060313_CL.shp and SPREAD3_IFC_8470SEG3B_060313_CL.shp provided by JFC Engineers & Surveyors on June 18, 2013

4,000 0 4,000 8,000
Feet
Locations are Approximate

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PROJECT NO.:	134288
DRAWN:	AUG 2013
DRAWN BY:	KFH
CHECKED BY:	ES
FILE NAME:	Seg2A_Figure1.mxd

NEW ENTERPRISE PIPELINE
WEP III SEGMENT 2A

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY AND SANDOVAL COUNTIES, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES
DRAWING CATEGORY: 1

FIGURE **1**

LOCATION OF DISCHARGE

- DISCHARGE POINT
- DISSIPATION AND DISCHARGE SYSTEM
- OVERFLOW PIPE
- DISCHARGE AREA
- MILE POST
- APPROXIMATE LOCATION OF SEGMENT 2A
- CONSTRUCTION RIGHT-OF-WAY
- PLSS SECTION LINE

User: KHagan

Source: ESRI World Imagery; ESRI, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community. Date of image: 05/22/2010
SPREAD3_IFC_8470SEG2A_060313_CL.shp, SPREAD3_IFC_8470SEG2A_060313_CROW.shp provided by JFC Engineers & Surveyors on June 18, 2013

Date: 8/26/2013

N

50 0 50 100

Feet

Locations are Approximate

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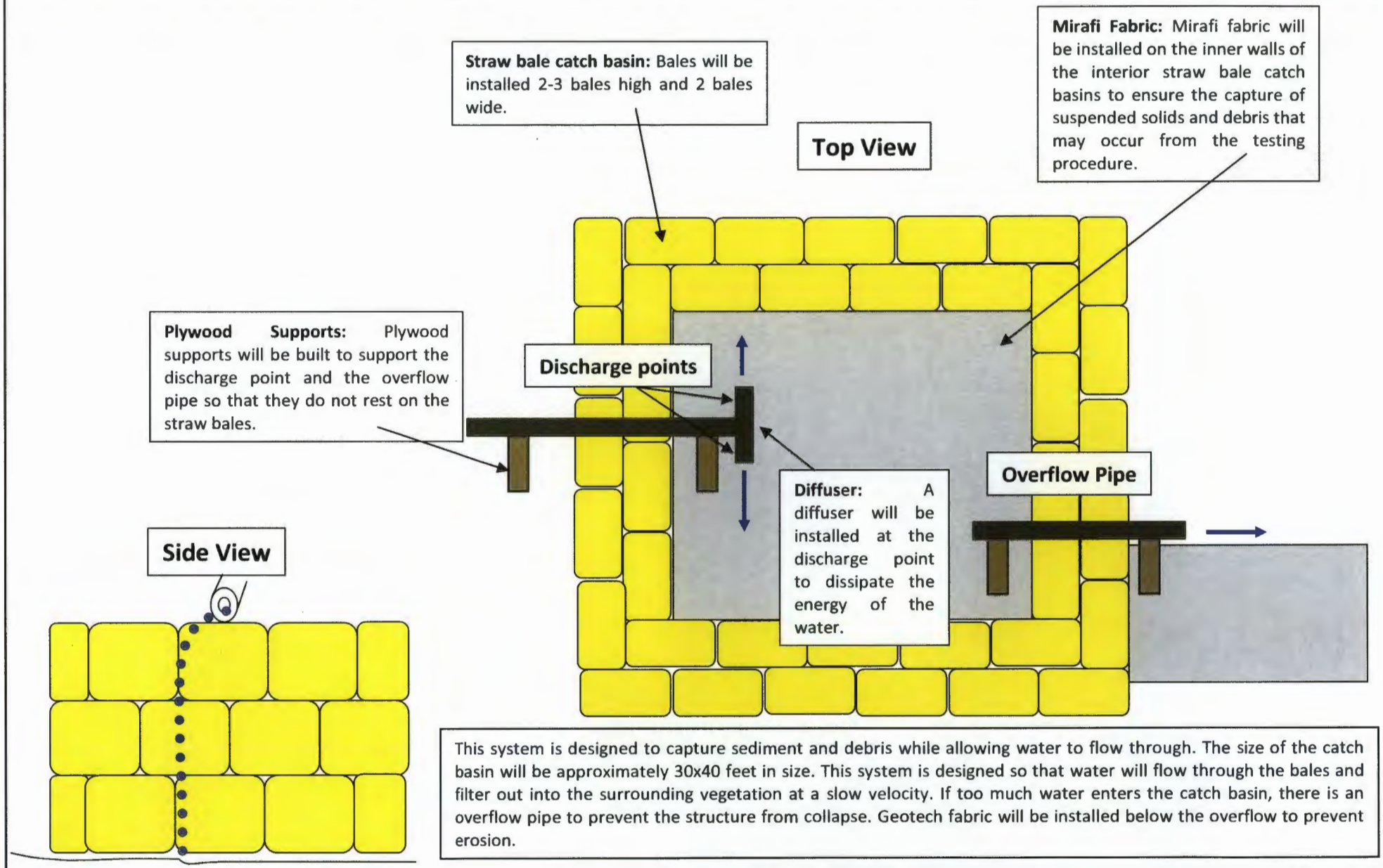
NEW ENTERPRISE PIPELINE
WEP III SEGMENT 2A DISCHARGE LOCATION

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES
DRAWING CATEGORY: 1

FIGURE **2**



This system is designed to capture sediment and debris while allowing water to flow through. The size of the catch basin will be approximately 30x40 feet in size. This system is designed so that water will flow through the bales and filter out into the surrounding vegetation at a slow velocity. If too much water enters the catch basin, there is an overflow pipe to prevent the structure from collapse. Geotech fabric will be installed below the overflow to prevent erosion.

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FILE NAME:	Seg2A_Figure3.doc

DISSIPATION AND DISCHARGE SYSTEM

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY COUNTY, NEW MEXICO

ORIGINATOR:	K.HAGAN	DRAWING CATEGORY
APPROVED BY:	ES	1

FIGURE
3

APPENDIX A
Certification of Siting Criteria

Certification of Siting Criteria

Hydrostatic Discharge Line

I, Theresa Ancell, have performed a site visit to look for the presence of the items described below and have confirmed that evidence of these items was not observed within the specified distance from the discharge location. The discharge location will be located in the SE/4 of the NE/4 of Section 5, Township 20 North, Range 5 West in McKinley County, NM (see Figure 2).

1. Within 200 feet of a watercourse, lakebed, sinkhole or playa lake;
2. Within an existing wellhead protection area (200 feet from a private, domestic fresh water well or spring used by less than five households for domestic or stock watering purposes or 1,000 feet from any other fresh water well or spring);
3. Within a surface expression of a subsurface mining operation or karst feature;
4. Within, or within 500 feet of, a wetland; or
5. Within 500 feet from the nearest permanent residence, school, hospital, institution or church.

On behalf of Enterprise Products, I state that the above information is complete and true to the best of my knowledge.

Theresa Ancell

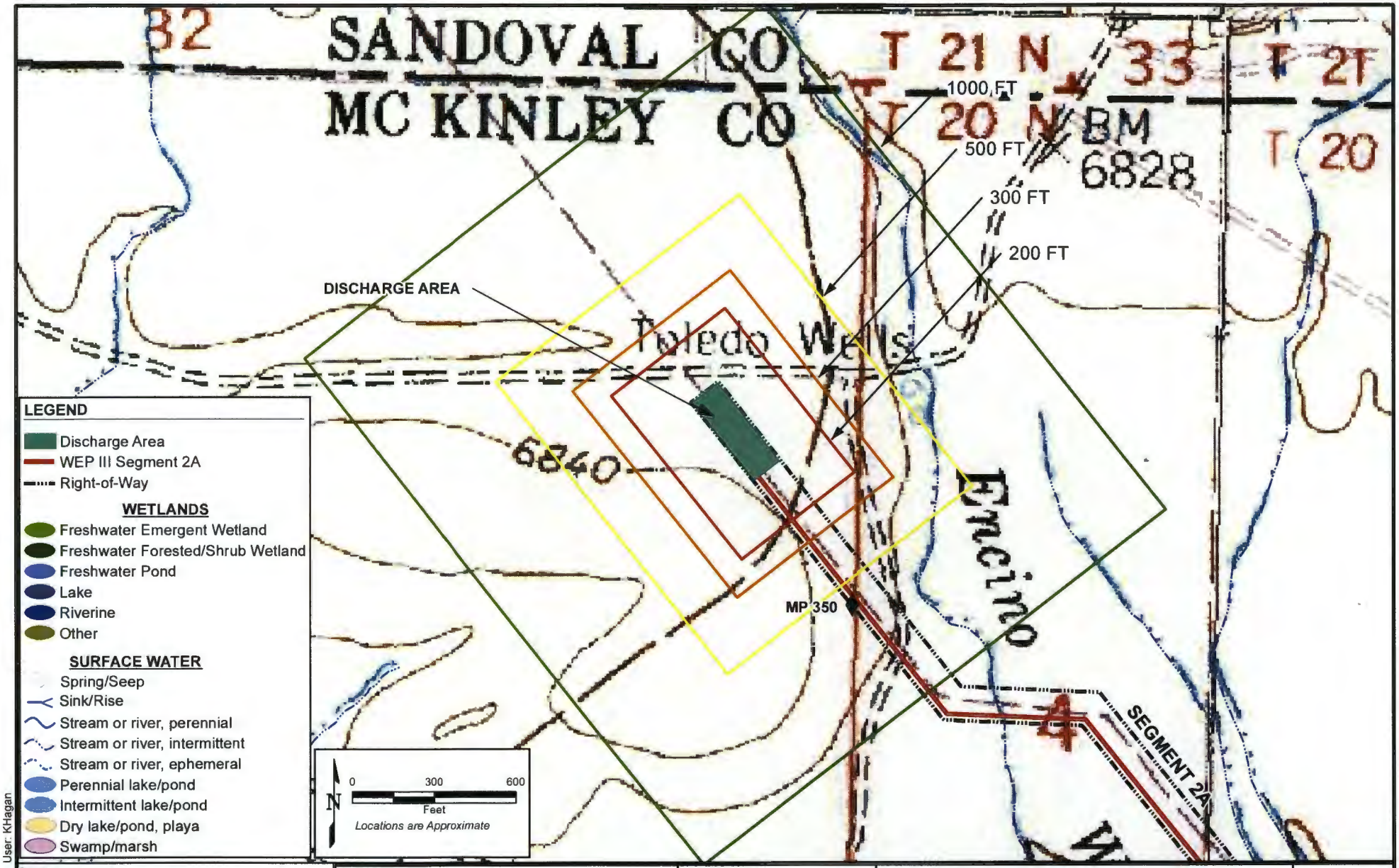
Signature

6/2/2013
Date of Site Visit

Environmental Scientist
Title:

APPENDIX B

Water Feature, Water Well Information and Floodplain Information



User: KHagan

Date: 8/26/2013

Sources:
SPREAD3_IFC_8470SEG2A_060313_CL.shp and
SPREAD3_IFC_8470SEG2A_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
National Wetlands Inventory, USF&WS
National Hydrography Dataset, USGS
USGS 7.5' Topographic Quadrangles, Mule Dam, Deer Mesa, Star Lake, Ojo Encino Mesa, NM

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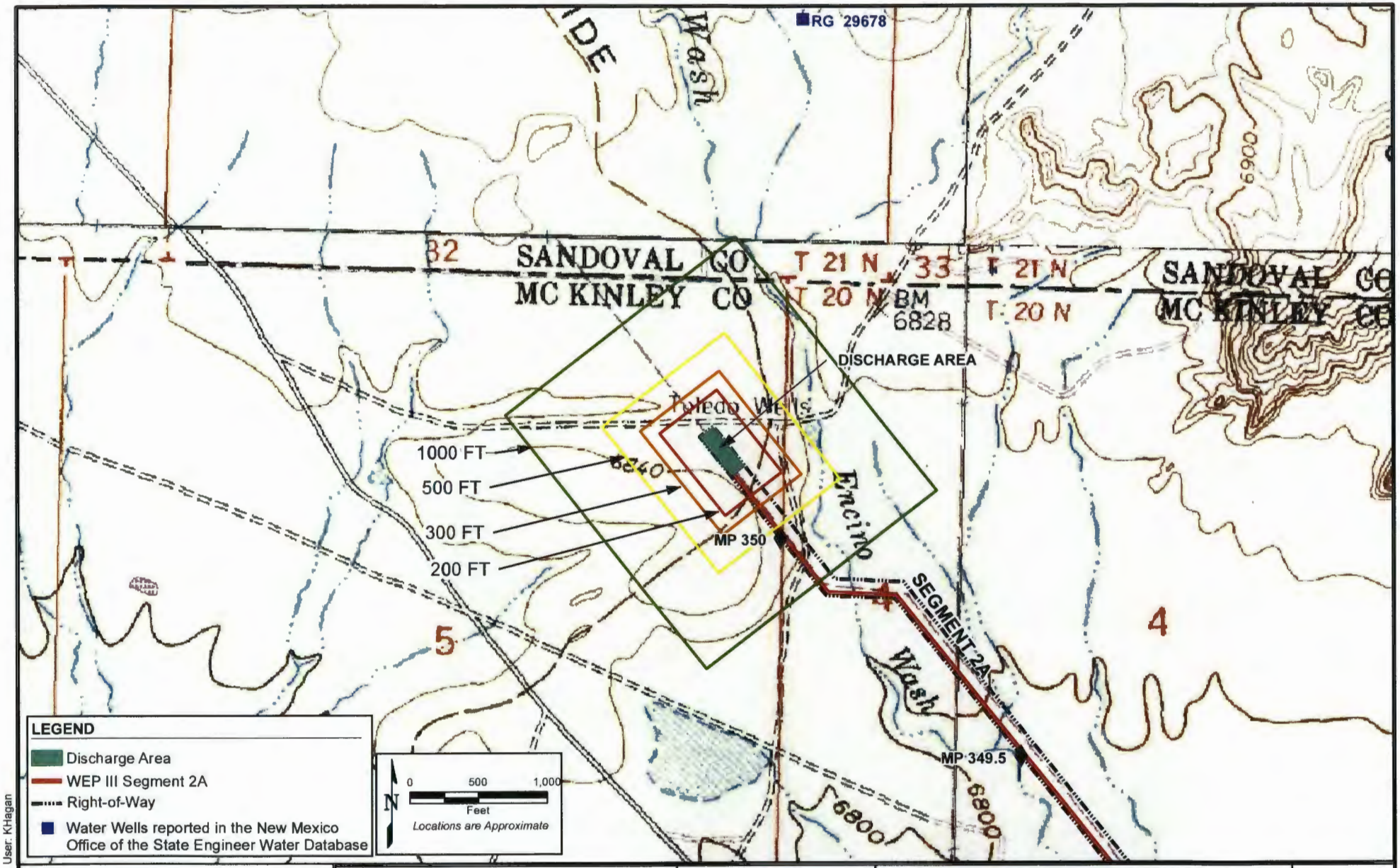
SURFACE WATER AND WETLANDS NEAR THE DISCHARGE AREA, WEP III SEGMENT 2A

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES

DRAWING CATEGORY: 1

FIGURE
B-1



User: KHagan

Date: 8/26/2013

Sources:
SPREAD3_IFC_8470SEG2A_060313_CL.shp and
SPREAD3_IFC_8470SEG2A_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
New Mexico Office of the State Engineer, data as of 07/2011
USGS 7.5' Topographic Quadrangles, Mule Dam, Deer Mesa, Star Lake, Ojo Encino Mesa, NM

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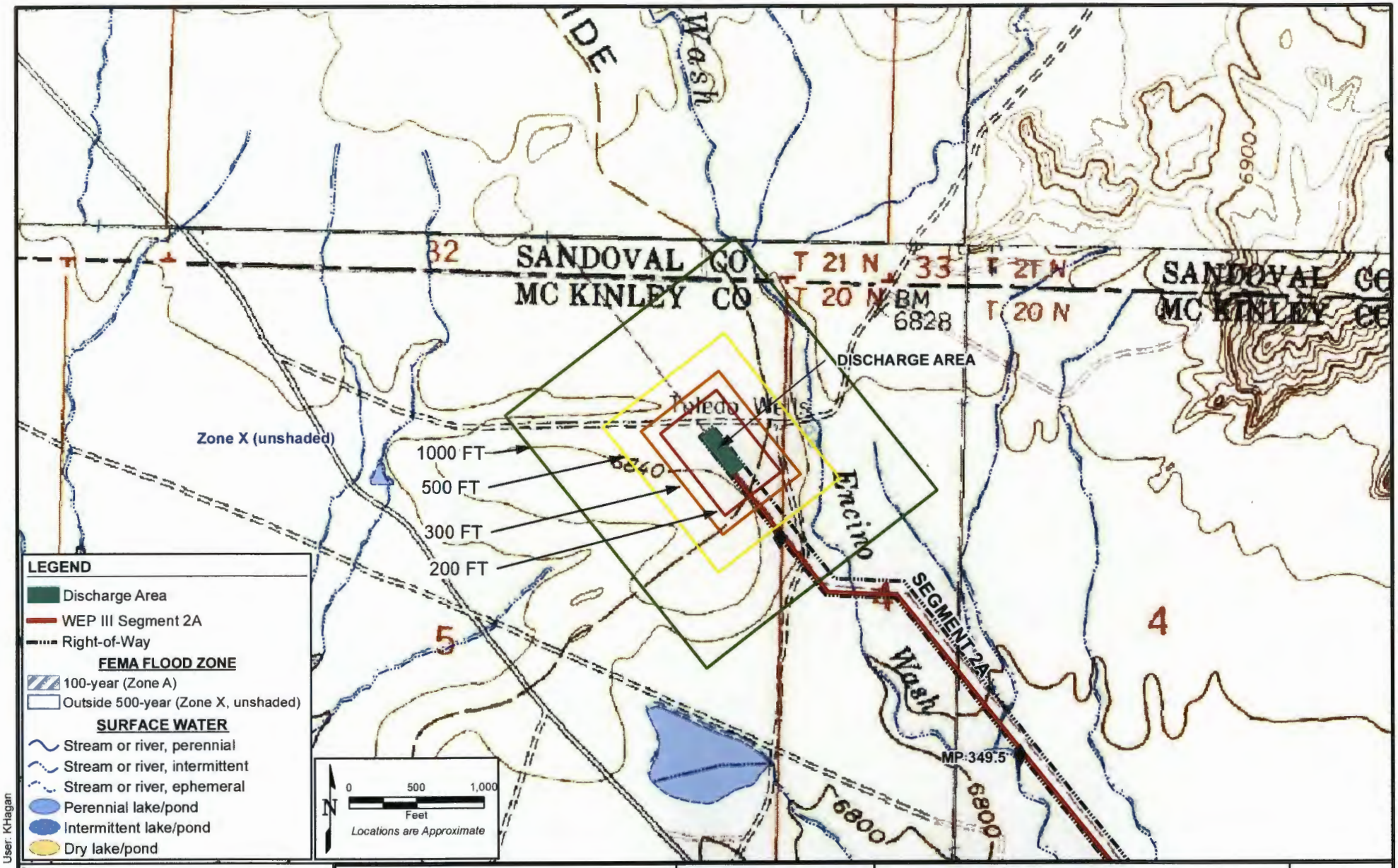
WATER WELLS IN THE VICINITY OF THE DISCHARGE AREA, WEP III SEGMENT 2A

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES
DRAWING CATEGORY: 1

FIGURE
B-2



Sources:
SPREAD3_IFC_8470SEG2A_060313_CL.shp and
SPREAD3_IFC_8470SEG2A_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
FEMA FIRM panels 35043C0250D and 35043C0275D dated 3/18/2008;
35031C0675E, 35031C0700E dated 2/17/2010
USGS 7.5' Topographic Quadrangles, Mule Dam, Deer Mesa,
Star Lake, Ojo Encino Mesa, NM

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DRAWN BY:	KFH
CHECKED BY:	ES
FILE NAME:	Seg2A_FigureB3.mxd

FEMA FLOOD MAP FOR THE VICINITY OF THE DISCHARGE AREA, WEP III SEGMENT 2A

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY COUNTY, NEW MEXICO

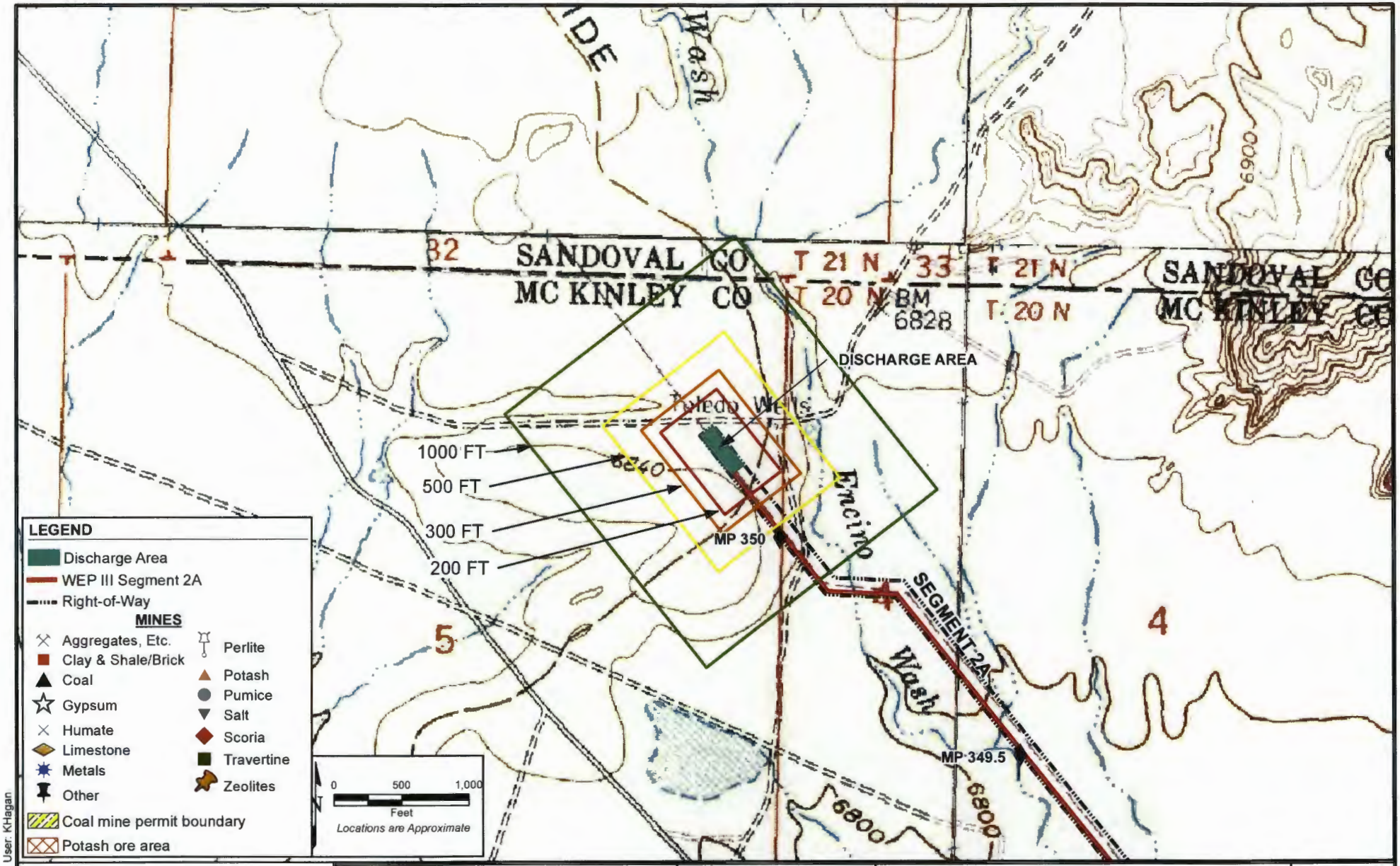
ORIGINATOR: K. HAGAN
APPROVED BY: ES

DRAWING CATEGORY: 1

FIGURE **B-3**

User: KHagan
Date: 8/26/2013

APPENDIX C
Area Mine Information



Sources:
SPREAD3_IFC_8470SEG2A_060313_CL.shp and
SPREAD3_IFC_8470SEG2A_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
New Mexico Mining and Minerals Division, February 2012
National Hydrography Dataset, USGS
USGS 7.5' Topographic Quadrangles, Mule Dam, Deer Mesa, Star Lake, Ojo Encino Mesa, NM

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PROJECT NO.	134288
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DRAWN BY:	KFH
CHECKED BY:	ES
FILE NAME:	Seg2A_FigureC1.mxd

ACTIVE MINES NEAR THE DISCHARGE AREA, WEP III SEGMENT 2A

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES

DRAWING CATEGORY: 1

FIGURE
C-1

User: KHagan
Date: 8/26/2013

RE: Mines in Vicinty of Proposed Hydrostatic Testing

Tompson, Mike, EMNRD <Mike.Tompson@state.nm.us>

Tue 7/16/2013 2:28 PM

To:Melissa Cote <MCote@kleinfelder.com>;

Cc:Kretzmann, John, EMNRD <john.kretzmann@state.nm.us>;

Hi Melissa,

The New Mexico Abandoned Mine Land Program has no record of any abandoned mines within a half-mile buffer of Section 5, Township 20N, Range 5W.

Please let me know if you have any other questions.

Mike Tompson
New Mexico Abandoned Mine Land Program

From: Melissa Cote [mailto:MCote@kleinfelder.com]
Sent: Tuesday, July 16, 2013 10:55 AM
To: Tompson, Mike, EMNRD
Subject: Mines in Vicinty of Proposed Hydrostatic Testing

Hi Mike,

I am working on a hydrostatic discharge plan for a different section of the Enterprise pipeline. We are required to research whether there are any mines in the vicinity of the proposed discharge area.

The discharge area is located at:

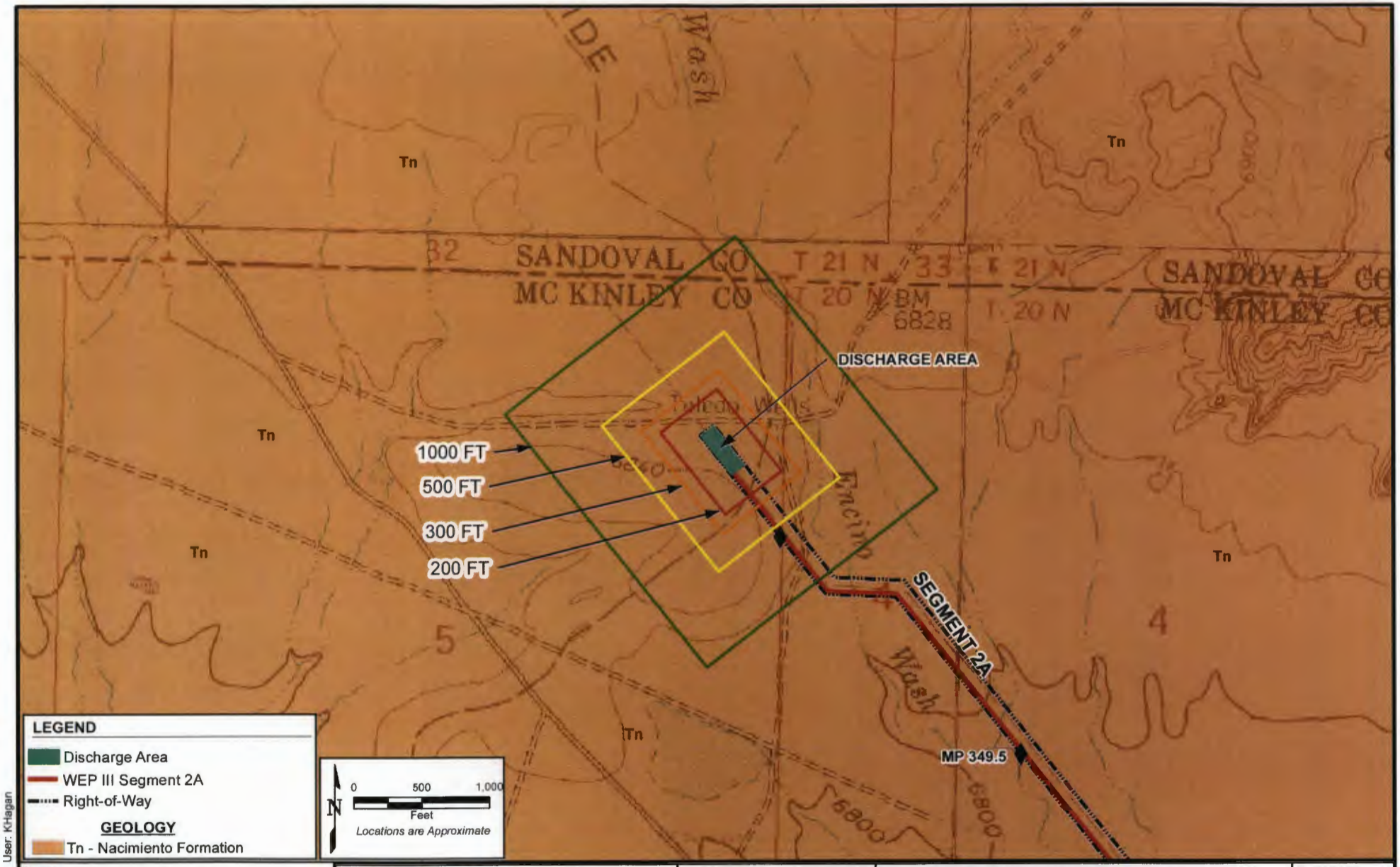
- southeast ¼; northeast ¼; Section 5, T 20N, R 5W
- Latitude 35.996084; Longitude -107.381934

Would you be able to tell us whether there are any mines within a 1/2 mile radius of this area?

Thank you,
Melissa Cote

Melissa Cote
Kleinfelder- Albuquerque, NM

APPENDIX D
Geology



Sources:
SPREAD3_IFC_8470SEG2A_060313_CL.shp and
SPREAD3_IFC_8470SEG2A_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
USGS OFR 2005-21351
USGS 7.5' Topographic Quadrangles, Mule Dam, Deer Mesa, Star Lake, Ojo Encino Mesa, NM

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FILE NAME:	Seg2A_FigureD1.mxd

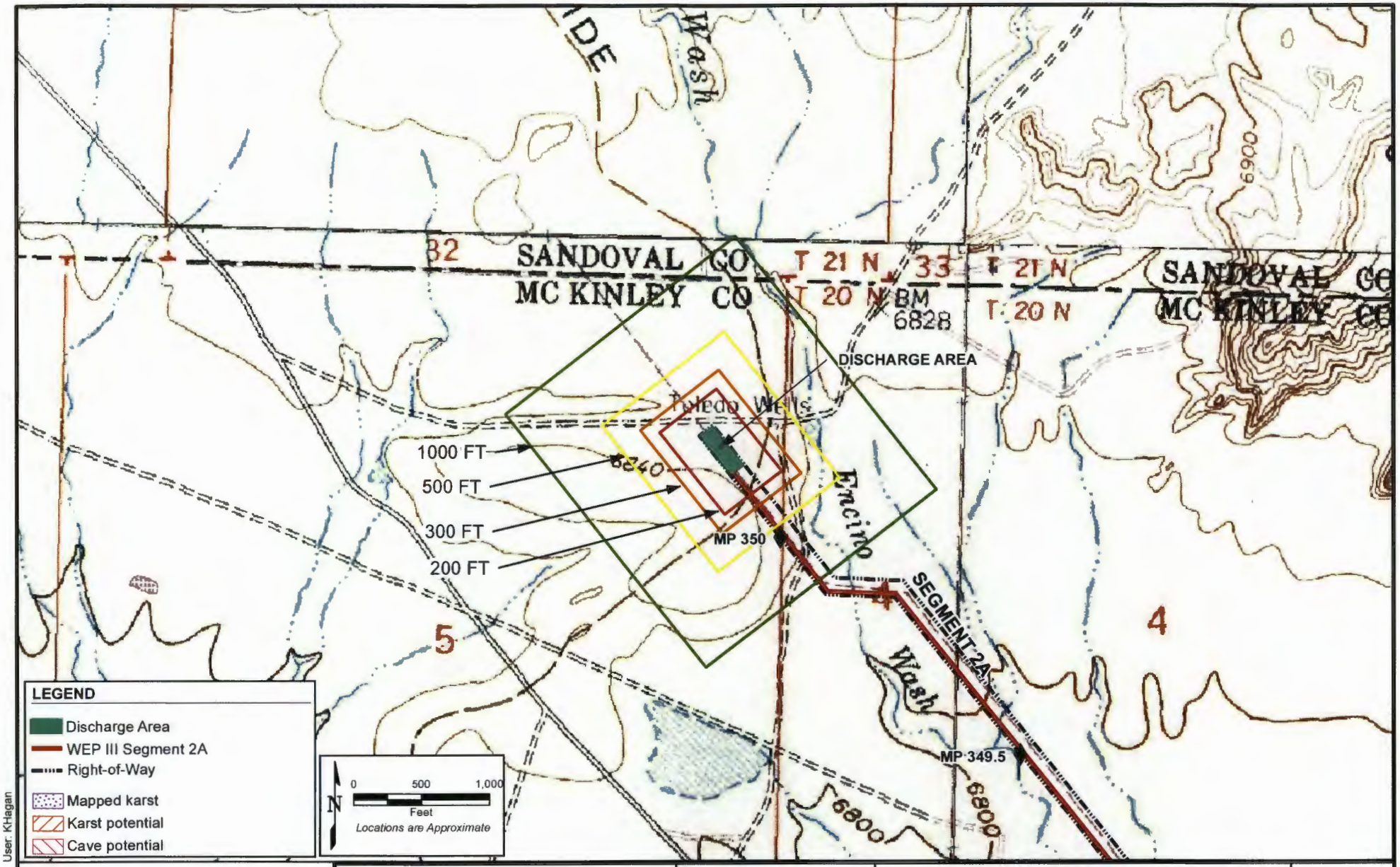
GEOLOGY IN THE VICINITY OF THE DISCHARGE AREA, WEP III SEGMENT 2A

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES
DRAWING CATEGORY: 1

FIGURE
D-1

User: KHagan
Date: 8/26/2013



Sources:
SPREAD3_IFC_8470SEG2A_060313_CL.shp and
SPREAD3_IFC_8470SEG2A_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
USGS OFR 2004-1352
New Mexico BLM GIS Basemap
USGS 7.5' Topographic Quadrangles, Mule Dam, Deer Mesa, Star Lake, Ojo Encino Mesa, NM

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DRAWN:	AUG 2013
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FILE NAME:	Seg2A_FigureD2.mxd

KARST IN THE VICINITY OF THE DISCHARGE AREA, WEP III SEGMENT 2A

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY COUNTY, NEW MEXICO

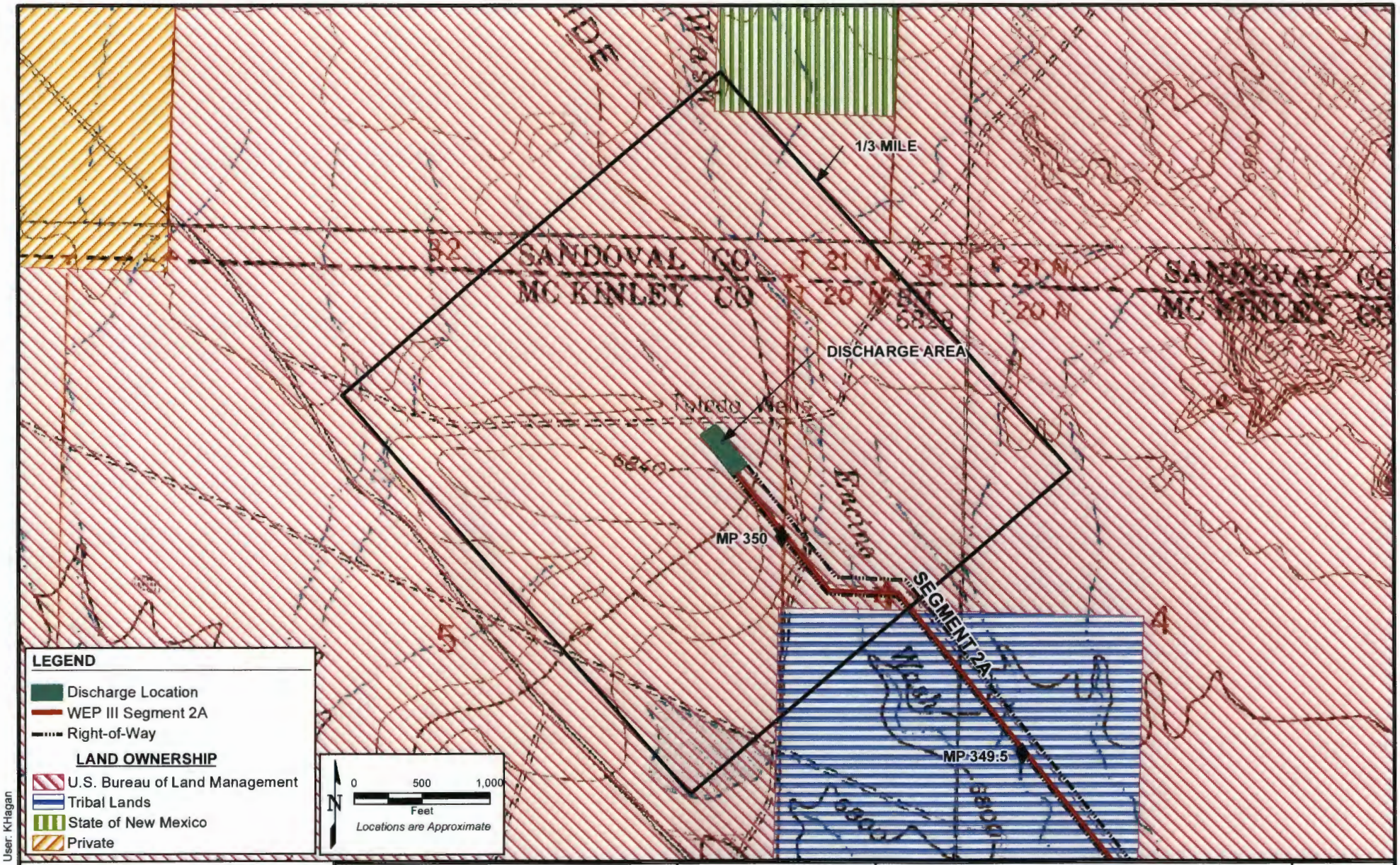
ORIGINATOR: K. HAGAN
APPROVED BY: ES

DRAWING CATEGORY: 1

FIGURE
D-2

User: KHagan
Date: 8/26/2013

APPENDIX E
Area Landownership



User: KHagan

Date: 8/26/2013

Sources:
SPREAD3_IFC_8470SEG2A_060313_CL.shp and
SPREAD3_IFC_8470SEG2A_060313_CROW.shp
provided by JFC Engineers & Surveyors on June 18, 2013
New Mexico BLM GIS dataset
USGS 7.5' Topographic Quadrangles, Mule Dam, Deer Mesa, Star Lake, Ojo Encino Mesa, NM

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DRAWN BY:	KFH
CHECKED BY:	ES
FILE NAME:	Seg2A_FigureE1.mxd

LAND OWNERSHIP IN THE VICINITY OF THE DISCHARGE AREA, WEP III SEGMENT 2A

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES

DRAWING CATEGORY: 1

FIGURE
E-1

APPENDIX F
Public Notice

PUBLIC NOTICE

The United States Department of Transportation (USDOT) requires periodic pressurized tests on all USDOT-regulated pipelines. Enterprise Products Operating LLC (Enterprise) hereby gives notice that the following discharge permit application has been submitted to the New Mexico Oil Conservation Division (NMOCD) in accordance with Subsection B, C, E, and F of 20.6.2.3103 New Mexico Administrative Code. The local Enterprise mailing address is: Enterprise Products Operating LLC, 614 Reilly Ave., Farmington, NM 87401.

The purpose of hydrostatic (testing with water) pipeline testing is to determine the extent to which potential defects might threaten the pipeline's ability to sustain maximum allowable operation pressure. The pipeline will be filled with water, and then pressurized to a pressure higher than the standard operating pressure for a specified duration of time.

Enterprise has submitted an application for hydrostatic test water discharge that will occur on the pipeline right-of-way at Latitude 35.996084; Longitude -107.381934 in McKinley County, New Mexico. The location of the discharge is approximately 33 miles west of Cuba, New Mexico. To reach the discharge location from Cuba, from the intersection of US-550 S and NM 126 S., head south on US-550 for 0.9 miles; turn right onto NM-197 S for 15.8 miles; turn right onto Indian Service Route 474 for 7.6 miles; continue onto Indian Service Route 475 for 3.9 miles; continue onto Indian Service Route 471 for 1.8 miles; take a slight left to stay on Indian Service Route 471 and continue for 3.3 miles. The discharge site will be on the right and will take place in the 125-foot pipeline easement right-of-way (ROW). The hydrostatic test is scheduled on or about October 22, 2013 with discharge of the test water scheduled on or about November 1, 2013.

The new piping, called the Western Expansion Pipeline (WEP) III, Segment 2A, will be hydrostatically tested. Up to 450,000 gallons of clean water will be obtained from the Horn well and will be hauled to the site and pumped via hose into the pipeline. Once the test has been completed, and prior to discharge, Enterprise will collect and analyze a sample of the water obtained from the end section of the pipeline. The sample will be analyzed for water quality. Once the results have been received, the results will be forwarded to the NMOCD. Upon NMOCD concurrence that the discharge water meets the water quality standards of NMAC 20.6.2.3103, Enterprise will discharge the water in accordance with the approved discharge permit. If discharge to the ground surface is approved, the water will be released from a pipeline and the test water will be discharged to the dissipation and discharge system and allowed to flow onto ground surface within the ROW.

If test water exceeds discharge requirements, it will first be treated using electro-coagulation to remove constituents that exceed the discharge requirements. 400-barrel storage tanks will temporarily hold the treated water while a post-treatment sample is collected and submitted for laboratory analysis. The analytical results will be sent to NMOCD for approval and upon NMOCD concurrence that the discharge water meets the water quality standards of NMAC 20.6.2.3103; Enterprise will discharge the water in accordance with the approved discharge permit.

If after this treatment process, water still exceeds discharge requirements, it will be transported from the project site in DOT-approved tanker trucks by an NMOCD-approved hauler to an NMOCD-approved waste water disposal facility.

Limited data on shallow groundwater conditions was available from wells located near the discharge site. Based on a literature review, regional shallow groundwater in the region has total dissolved solids concentrations that range from 400 to 2,070 parts per million. Depth to water in the closest well to the site, located approximately 0.6 miles away, was 769 feet below ground surface. Based on the elevation data provided on the topographic map, the ground surface elevation at the closest well location is approximately 6,840 feet above mean sea level (amsl). The ground elevation at the discharge location is approximately 6,843 feet amsl; therefore, the depth to water is anticipated to be similar to the depth to water observed at the location of the closest well.

The notice of intent and discharge plan outlines how produced water and waste will be properly managed, including handling, storage, and final disposition. The plan also includes procedures for the proper management of leaks, accidental discharges, and spills to protect the waters of the State of New Mexico.

For additional information, to be placed on a facility-specific mailing list for future notices, or to submit comments please contact:

Brad Jones, Environmental Engineer
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Phone: 505.476.3487

The NM Energy, Minerals and Natural Resources Department will accept comments and statements of interest regarding this hydrostatic test and will provide future notices for this pipeline upon request.

AVISO PUBLICO

El Departamento de Transporte de los Estados Unidos (United States Department of Transportation, USDOT) requiere hacer pruebas (presurizadas) periódicamente en toda tubería regulada por USDOT. La compañía Enterprise Products Operating, LLC (Enterprise) da aviso por este medio que la siguiente aplicación de permiso de descarga ha sido sometida al New Mexico Oil Conservation Division (NMOCD) de acuerdo con las Sub-Sección B, C, E, y F del Código Administrativo de Nuevo México (New Mexico Administrative Code, NMAC, 20.6.2.3103). La dirección de correo local de la compañía Enterprise es: Enterprise Products Operating LLC, 614 Reilly Ave., Farmington, NM 87401.

El propósito de la prueba hidro-estática (prueba con agua) en la tubería es para evaluar el potencial de defectos que puedan afectar la habilidad de la tubería de sostener la máxima presión de operación permisible. La tubería será llenada con agua, y luego presurizada a una presión mayor a la presión de operación estándar por periodo de tiempo especificado.

Enterprise ha sometido una aplicación para descargar agua de pruebas hidro-estática que ocurrirá en el área de la servidumbre de paso a una Latitud de 35.996084°; Longitud de -107.381934° en el Condado de McKinley, Nuevo México. El lugar de la descarga está aproximadamente 33 millas al oeste de Cuba, Nuevo México. Para llegar al lugar de la descarga desde Cuba, desde la intersección de US-550 S y NM 126 S, viajar hacia el sur sobre US-550 por 0.9 millas; dar vuelta a la derecha sobre NM-197 por 15.8 millas; dar vuelta a la derecha sobre Ruta de Servicio Indio (Indian Service Route) 474 por 7.6 millas; continuar sobre Indian Service Route 475 por 3.9 millas; continuar sobre Indian Service Route 471 por 1.8 millas; dar un poco de vuelta hacia la izquierda para mantenerse sobre Indian Service Route 471 y continuar por 3.3 millas. El área de descarga estará sobre la derecha y tomará lugar en los 125 pies de servidumbre de paso de la tubería. La prueba hidro-estática está programada para o aproximadamente Octubre 22, 2013 con la descarga del agua de prueba programada para o aproximadamente Noviembre 1, 2013.

La nueva tubería, llamada Western Expansion Pipeline (WEP) III, Segmento 2A, será probada hidro-estáticamente. Hasta 450,000 galones de agua limpia serán obtenidos del pozo Horn y serán transportados al sitio y bombeados por medio de una manguera a la tubería. Una vez que la prueba se haya completado, y antes de la descarga, Enterprise obtendrá y analizara una muestra de agua obtenida de la sección en el extremo de la tubería. La muestra será analizada para evaluar la calidad del agua. Una vez que se reciban los resultados, los resultados serán enviados a NMOCD. Una vez que NMOCD concurra que el agua de descarga cumple con los estándares de calidad de agua de NMAC 20.6.2.3103, Enterprise descargara el agua de acuerdo con el permiso de descarga aprobado. Si descarga en la superficie del suelo es aprobado, el agua será desalojada de una tubería y el agua de prueba será descargada al sistema de descarga y permitida fluir sobre la superficie del suelo en el área de la servidumbre de paso de la tubería.

Si el agua de prueba excede los requisitos de descarga, será primero tratada usando electro-coagulación para remover componentes que excedan los requisitos de descarga. 400-barriles usados como tanques de almacén temporalmente guardaran el agua tratada hasta que las muestras de después de tratamiento sean obtenidas y sometidas para análisis de laboratorio. Los resultados analíticos serán enviados a NMOCD para ser aprobados y cuando NMOCD concurra que el agua de descarga tiene los estándares de calidad de agua de NMAC 20.6.2.3103; Enterprise descargara el agua de acuerdo con el permiso de descarga aprobado.

Si después de este proceso de tratamiento, agua todavía excede los requisitos de descarga, será transportada del sitio del proyecto en camiones-pipa aprobados por el departamento de transporte por un transportista aprobado por NMOCD a un lugar aprobado por NMOCD para deshacerse del agua de prueba.

Datos limitados acerca del nivel freático más cercano a la superficie del suelo estaban disponibles de pozos localizados cerca del sitio de descarga. En base a una revisión de literatura, el nivel freático regional tiene una concentración total de solidos disueltos con un rango de 400 a 2,070 partes por millón. La profundidad al agua en el pozo más cercano al sitio, localizado aproximadamente a 0.6 millas, era de 769 pies debajo de la superficie del suelo. En base a los datos de elevación proporcionada en el mapa topográfico, la elevación de la superficie del suelo en el pozo mas cercano es de aproximadamente 6,840 pies arriba del nivel del mar (mean sea level, msl). La elevación del suelo en el área de descarga es aproximadamente 6,843 pies arriba del nivel del mar; por lo tanto, se anticipa la profundidad al nivel freático sea similar a la profundidad del nivel freático observado en el pozo mas cercano.

El aviso del plan de intención de descarga resume como el agua que se produzca será manejada apropiadamente, incluyendo su manejo, guardado, y el proceso final para deshacerse del agua. El plan también incluye procesos para el manejo apropiado de fugas, descargas accidentales, y derrames para proteger las aguas del estado del Estado de Nuevo México (New Mexico).

Para información adicional, ser puesto en una lista de correo de particular a este proyecto, o para someter comentarios, favor de contactar:

Brad Jones, Environmental Engineer
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Teléfono: (505) 476-3487

El Departamento de NM de Energia, Minerales y Recursos Naturales (NM Energy, Minerales and Natural Resources Department) aceptará comentarios al respecto de esta prueba hidro-estática y proporcionará avisos futuros para esta tubería en base a petición.

APPENDIX G

Electro-Coagulation Process Information

Post-Hydrostatic Test Water On-Site Electrocoagulation Treatment

Introduction

The electro-coagulation (EC) process is one that uses an electrical current to coagulate organic constituents and suspended solids in water. The coagulated organics have the ability to adsorb ionic constituents which makes it possible to separate out a flocculent with the majority of suspended organics and some of the ionic constituents removed (ITRC, 2013). At this site, it will be used to treat hydrostatic test water after the completion of testing and prior to discharge onto the ground surface.

EC Process

Water will be transferred from the pipeline with a pump and hose into two 21,000-gallon closed top weir tanks to allow for consistent volumes to feed supply pumps. The water will be pumped from the weir tanks to the water treatment system tank. The hydrostatic test water will be treated with a zero toxicity bio-polymer and will be run through a quad filtration vessel containing 80, 5-micron filtration socks. Material Data Safety Sheets for chemical or additives used are attached. The water will then be pumped through a series of holding tanks and filtering systems, and then pumped with hoses and pipes into the water storage tanks. An illustration of the areas of secondary containment, EC treatment system, and the storage tanks is shown in Figure G-1. A detailed schematic of the EC treatment and filtration system setup is shown in Figure G-2.

As the water is processed through the treatment vessel, the system is continuously monitored for water pressure, pH, nephelometric turbidity units (NTU), flow rate and residual bio-fouling to ensure system is operating within specifications. As filtration cartridges are expended, the system is transferred to the secondary filtration system while maintenance is performed on the primary system. Treated water will be discharged by hose into approximately 27 interconnected, 400-barrel storage tanks. The water will be held in the storage tanks until analytical testing is conducted. Processing of the water through the EC system is anticipated to take approximately 3 days. All processing will occur within secondary containment and will occur in the pipeline ROW. The secondary containment is described under best management practices below.

Solid waste generated as part of this process consists of a synthetic filtration socks with particulate matter generated during the filtration process. As the sock becomes full, it will be manually removed from the filtration unit and placed into 42-gallon drums located within the secondary containment.

Post-treatment Sampling

One composite water sample will be collected from the end of the EC treatment process for purposes of discharge approval. The sample will be a composite sample collected from the following intervals/tanks: 1,000 gallons (1st tank); 235,100 gallons (14th tank); and 450,000 gallons (27th tank). The sample will be submitted for laboratory analysis, as described in *item j.* Analytical testing is anticipated to take approximately 4 days to receive the results.

Once the results have been received, they will be forwarded to the NMOCD. Upon NMOCD concurrence that the discharge water meets the water quality standards of NMAC 20.6.2.3103, Enterprise will discharge the water as described in *item h.*

If the results do not meet the required water quality standards, the water will pumped from the storage tanks into water trucks, using a hose or temporary piping. Transportation and disposal of the water is described in *item k.*

Any solids generated during the EC process will be managed as described in *item k.*

Best management practices

Secondary containment will be designed to hold 1 1/3 of the total volume of the 27 water storage tanks. It will be comprised of hay or dirt berms approximately 4 feet high with plastic lining the bottom of the containment area and draped over the sides of the containment. The approximate dimensions of the containment are 160 feet long by 125 feet wide.

Each individual vessel of the EC treatment system will have its own secondary containment. The storage tanks and EC treatment system will be contained within a single containment area located in the ROW.

If the test water needs to be transferred to water trucks for disposal, drip pans will be placed under hose connections and valves to prevent leaks from reaching the ground surface. Valves will be present on the water tanks and at various transfer areas to stop the flow of water if needed. Personnel will be present during transfer operations to close valves in case of leaks. Personnel will be located in the surrounding area to conduct pipeline construction and maintenance activities and can help prevent vandalism to the water tanks. Visual inspections will be conducted while the hydrostatic test water is stored in the storage tanks to ensure the absence of leaks and damage due to vandalism.

Approximately five 42-gallon drums will be used to store the spent filtration socks. The drums will be sealed and will be left inside the secondary containment area, until the EC process is complete and the solids are transported off site for disposal.

Timeline

The anticipated timeline if post treated water is approved for discharge to the ground surface:

	Activity	**Duration**	**Cumulative Days**
1	Tested water in pipeline does not meet standards for discharge to the ground surface	0	0
2	Secondary containment constructed and tanks placed inside. IDW mobilizes to site and sets up system	7	7
3	Treatment of water through EC system	3	10
4	Collection and analysis of post – treatment water samples	4	14
5	EC system removed	1	15
6	Discharge approved by NMOCD	1	16
7	Test water discharged to ground surface and drummed solids removed from disposal area	2	18
8	Empty storage tanks removed and secondary containment dismantled	7	25

The anticipated timeline if post-treated water needs to be hauled off for disposal:

	Activity	Duration	Cumulative Days
1	Tested water in pipeline does not meet standards for discharge to the ground surface	0	0
2	Secondary containment constructed and tanks placed inside. IDW mobilizes to site and sets up system	7	7
3	Treatment of water through EC system	3	10
4	Collection and analysis of post – treatment water samples	4	14
5	EC system removed	1	15
6	Test water cannot be discharged	0	15
7	Test water is transferred into water trucks and hauled offsite for disposal. Drummed solids removed for disposal	3	18
8	Empty storage tanks removed and secondary containment dismantled	7	25

Closure Plan

Upon completion of the treatment, the EC system will be removed from the site. Once the water in the storage tanks has been removed, the storage tanks will be dismantled and removed from the site. The drummed solids will be removed for disposal and the secondary containment will be dismantled. The site will be returned to preconstruction contours, as was present prior to hydrostatic test discharge and reseeded.

References

Interstate Technology Regulatory Council (ITRC), 2013, Technology Overview as Part of a Web-based Technical and Regulatory Guidance, Electrocoagulation, http://www.itrcweb.org/miningwaste-guidance/to_electrocoagulation.htm.

HALOSOURCE

Date: 7/24/2012
Revision: 00

Material Safety Data Sheet
HaloKlear: DBP-2100

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name:	HaloSource, Inc.
Corporate Address:	1631 220th St. SE, Suite 100, Bothell, WA 98021
Manufacturer's Telephone:	(425) 881-6464 (Monday-Friday, 8AM-5PM PDT)
Emergency Telephone (24 Hours):	800-424-9300 CHEMTREC (Domestic, North America) 703-527-3887 CHEMTREC (International, collect calls accepted)
Material/Trade/Product Name:	**HaloKlear: DBP-2100**
Synonyms:	Poly X Socks
Chemical Name:	Proprietary
Chemical Formula:	Proprietary
CAS No.:	Proprietary
EPA Registration #:	Not applicable
Product Use:	Flocculant

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	COMPONENT	%	OSHA HAZARDOUS?
Trade Secret	*Trade Secret*	*Trade Secret*	YES

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Off-white to tan, odorless powder.

May cause irritation to eyes and respiratory tract. May cause drying or chapping or skin.

WARNING! Can contain sufficient fines to cause a combustible dust explosion. Product will burn when in contact with a flame. See Section 5 Fire Fighting Measures for more information.

POTENTIAL HEALTH EFFECTS

EYE: Dry powder may cause foreign body irritation in some individuals.

SKIN: Prolonged contact with the dry powder may cause drying or chapping.

INHALATION: Hygroscopic properties of the product can form a paste or gel in the airway. Inhalation of dust may cause respiratory tract irritation. Excessive inhalation of dust may cause coughing and sneezing.

INGESTION: Not toxic if swallowed (less than a mouthful) based on available information.

CHRONIC EXPOSURE/CARCINOGENICITY: None of the components present in this material at concentrations of equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

AGGRAVATION OF PRE-EXISTING CONDITIONS: None known.

POTENTIAL ENVIRONMENTAL EFFECTS: Contains no substances known to be hazardous to the environment.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYE CONTACT: Remove contact lenses (if applicable), flush with water for 15 minutes. Call a physician.

SKIN CONTACT: Cleansing the skin after exposure is advisable.

INHALATION: If large amounts are inhaled, remove to fresh air and consult a physician.

INGESTION: Consult a physician if necessary.

NOTE TO PHYSICIANS: None.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Not applicable
UPPER FLAMMABLE LIMIT: Not available
FLAMMABLITY CLASS (OSHA): Not applicable
AUTOIGNITION TEMPERATURE: Not available
LOWER FLAMMABLE LIMIT: Not available
FLAME PROPAGATION/BURNING RATE: Not available

UNIQUE FIRE PROPERTIES: Combustible dust which can contain sufficient fines to cause a combustible dust explosion.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide.

EXTINGUISHING MEDIA: Water, dry chemical, carbon dioxide.

PROTECTION OF FIREFIGHTERS: Treat as a "Class A" fire. Product will burn when in contact with a flame. Self extinguishers when ignition source is removed. Tends to smolder. As in any fire, wear self-contained breathing apparatus pressure-demand, and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: See Section 8 (Personal Protective Equipment).

ENVIRONMENTAL PRECAUTIONS: None known.

METHODS FOR CLEANING UP: Wet material on walking surfaces will be extremely slipper. Avoid dust formation. Use equipment designed specifically for combustible dust. Take precautionary measures against static discharges.

SECTION 7: HANDLING AND STORAGE

SAFE *HANDLING* RECOMMENDATIONS

VENTILATION: Avoid dust formation. Provide appropriate exhaust ventilation in places where dust is formed.

FIRE PREVENTION: Product may form combustible dust-air mixtures. Keep away from heat, flames, sparks, and other ignition sources. Avoid emptying package in or near flammable vapors. Static charges may cause flash fire.

SPECIAL HANDLING REQUIREMENTS: Remove material from eyes, skin and clothing.

SAFE *STORAGE* RECOMMENDATIONS

CONTAINMENT: No special containment needed.

STORAGE ROOM RECOMMENDATIONS: Store in a cool, dry, well-ventilated area away from direct heat.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

STORAGE CONDITIONS: Store in cool, dry place. Keep container closed when not in use; keep out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits in this section.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: This product does not cause significant eye irritation or eye toxicity requiring special protection. Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

SKIN PROTECTION: Although this product does not present a significant skin concern, minimizes skin contamination by following good industrial practice.

HAND PROTECTION: Chemical resistant gloves are recommended to minimize potential irritation from handling.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Respirator use is not required for this product.

GOOD HYGEIENE/WORK PRACTICES: Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.

EXPOSURE GUIDELINES

PERMISSIBLE EXPOSURE LIMITS			
INGREDIENT	OSHA	WISHA	ACGIH (TLV)

CAS NO.	TWA	STEL	TWA	STEL	TWA	STEL
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Off white to tan
PHYSICAL FORM: Solid, powder
pH: Approximately neutral (1% solution)
VAPOR DENSITY: Not known
MELTING POINT: Not known
SOLUBILITY IN WATER: Fully soluble

SHAPE: Powder
ODOR: Odorless
VAPOR PRESSURE: Not known
BOILING POINT: Not known
FREEZING POINT: Not known
SPECIFIC GRAVITY OR DENSITY: Not known

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Values should not be construed as a guaranteed analysis of any specific lot or as specifications.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions

CONDITIONS TO AVOID: Avoid dust formation

MATERIALS TO AVOID (INCOMPATIBILITY): Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ORAL LD_{50} (rat): >5,000 mg/kg

DERMAL LD_{50} (rabbit): Not available

DERMAL LD_{50} (rat): Not available

SKIN IRRITATION: Non-irritating (rabbit)

EYE IRRITATION: Non-irritating (rabbit)

SKIN SENSITIZATION: No skin allergy observed in gui8nea pig following repeated skin exposure

ADDITIONAL INFORMATION: The dry powder may cause foreign body irritation in some individuals. Prolonged contact with the dry powder may cause drying or chapping of the skin. Excessive inhalation of dust may be annoying and can mechanically impede respiration. Due to the hygroscopic properties, they can form a paste or gel in the airway.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

MOBILITY: Not available

PERSISTENCE AND DEGRADABILITY: This product is biodegradable.

BIOACCUMULATIVE POTENTIAL: Inherently biodegradable.

ADDITIONAL INFORMATION:

- 96 Hour Acute Survival
  - Rainbow Trout: LC_{50} 491 mg/L, LC_{25} 347 mg/L
  - Fathead Minnow: LC_{50} 1110 mg/L, LC_{25} 678 mg/L

- 7-Day Chronic Survival and Growth
  - Rainbow Trout: LC_{50} 510 mg/L, LC_{25} 390 mg/L
  - Fathead Minnow: LC_{50} 605 mg/L, LC_{25} 443 mg/L
  - Ceriodaphnia Dubia: LC_{50} 352 mg/L, LC_{25} 289 mg/L

- Rainbow Trout (Biomass): LC_{50} 386 mg/L, LC_{25} 262 mg/L
- Fathead Minnow (Biomass): LC_{50} 505 mg/L, LC_{25} 256 mg/L

SECTION 13: DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT):

Proper Shipping Name:	Not Regulated
Hazard Class:	Not Regulated
Identification Number (UN Number):	Not Regulated
Packing Group (PG):	Not Regulated

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Component(s) listed

CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS):

CHEMICAL NAME	TPQ	RQ
Not applicable	Not applicable	Not applicable

SARA TITLE III SECTION 311/312 HAZARD CATEGORIES: Does this product/material meet the definition of the following hazard classes according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of SARA Title III?

ACUTE HEALTH HAZARD	CHRONIC HEALTH HAZARD	FIRE HAZARD	REACTIVE HAZARD	SUDDEN RELEASE OF PRESSURE
YES	NO	YES	NO	NO

SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

CALIFORNIA PROPOSITION 65: The following chemical(s) is/are known to the state of California to cause cancer or reproductive toxicity:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:
MSDS sections(s) changed since last revision of document:

- None, this is a new MSDS.

DISCLAIMER:

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The above information is based upon information HaloSource, Inc. believes to be reliable and is supplied for informational purposes only. HaloSource, Inc. disclaims any liability for damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to HaloSource, Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.

****

MSDS PREPARED BY: Jeremy Heath, EH&S Manager

HALOSOURCE

Date: 9/27/2011
Revision: 00

Material Safety Data Sheet
HaloKlear: Gel-Floc

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name:	HaloSource, Inc.
Corporate Address:	1631 220th St. SE, Suite 100, Bothell, WA 98021
Manufacturer's Telephone:	(425) 881-6464 (Monday-Friday, 8AM-5PM PDT)
Emergency Telephone (24 Hours):	800-424-9300 CHEMTREC (Domestic, North America) 703-527-3887 CHEMTREC (International, collect calls accepted)
Material/Trade/Product Name:	**HaloKlear: Gel-Floc MB**
Synonyms:	Chitosan Lactate
Chemical Name:	Chitosan, 2-hydroxypropanoate (salt)
Chemical Formula:	Not available
CAS No.:	66267-50-3
Product Use:	Flocculates soil contamination in storm water.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	HAZARDOUS INGREDIENT (S)	%	OSHA HAZARDOUS?
Trade Secret	*Trade Secret*	85 – 95	YES
Trade Secret	*Trade Secret*	15 – 5	YES

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

A fine, off-white powder with no odor.

This material/product may cause eye or skin irritation.

POTENTIAL HEALTH EFFECTS

EYE: May cause mechanical irritation. Will tend to form film on the surface of the eye causing blurred vision.

SKIN: Possible skin irritation or rash.

INHALATION: May aggravate pre-existing respiratory conditions or allergies. It may accumulate on linings of the nose and lungs resulting in dryness & coughing.

INGESTION: While it is not likely to be hazardous by ingestion, it may start dissolving and form a film on mucous membranes.

CHRONIC EXPOSURE/CARCINOGENICITY: Not known.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: May cause mechanical irritation. Will tend to form film on the surface of the eye causing blurred vision. Skin irritation. It may accumulate on linings of the nose and lungs resulting in dryness & coughing. May start dissolving and form a film on mucous membranes.

AGGRAVATION OF PRE-EXISTING CONDITIONS: May aggravate pre-existing respiratory conditions or allergies.

POTENTIAL ENVIRONMENTAL EFFECTS: Avoid water if material is spilled; water will dissolve chitosan lactate forming a thick viscous solution or gelatinous mass.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYE CONTACT: Remove contact lenses (when applicable) and flush eyes with water for 15 minutes. Get medical attention if irritation persists.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INHALATION: If exposed to excessive levels of dust, remove to fresh air and get medical attention if cough or other symptoms develop.

INGESTION: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If available give several glasses of milk. Call a physician or poison control center immediately.

NOTE TO PHYSICIANS: None.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Not available
AUTOIGNITION TEMPERATURE: Not available
UPPER FLAMMABLE LIMIT: Not available
LOWER FLAMMABLE LIMIT: Not available
FLAMMABLITY CLASS (OSHA): Not applicable
FLAME PROPAGATION/BURNING RATE: Not available

UNIQUE FIRE PROPERTIES: Keep away from oxidizing agents and avoid open flames. Product may ignite at temperatures in excess of 400°F. Depending on moisture content and particle size, airborne dust of Chitosan lactate might explode in the presence of an ignition source. It is comparable to flour and wood dust.

HAZARDOUS COMBUSTION PRODUCTS: None known

EXTINGUISHING MEDIA: Water spray, CO_2 (carbon dioxide), foam or dry chemical.

PROTECTION OF FIREFIGHTERS: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: See Section 8 (Personal Protective Equipment).

ENVIRONMENTAL PRECAUTIONS: AVOID WATER; water will dissolve chitosan lactate forming a thick viscous solution or gelatinous mass.

METHODS FOR CLEANING UP: The material may be vacuumed or collected for recovery or disposal.

SECTION 7: HANDLING AND STORAGE

SAFE *HANDLING* RECOMMENDATIONS

VENTILATION: Use with adequate ventilation.

FIRE PREVENTION: No special requirements.

SPECIAL HANDLING REQUIREMENTS: None.

SAFE *STORAGE* RECOMMENDATIONS

CONTAINMENT: Keep container closed when not in use.

STORAGE ROOM RECOMMENDATIONS: Store in cool, dry areas and away from incompatible substances.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

STORAGE CONDITIONS: Store in cool, dry areas and away from incompatible substances.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is required. None required under normal conditions of use.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: For operations where eye contact can occur, wear safety glasses.

SKIN PROTECTION: For operations where skin contact can occur, wear impervious rubber or neoprene apron.

HAND PROTECTION: For operations where hand contact can occur, wear impervious rubber or neoprene gloves.

RESPIRATORY PROTECTION: If dust is generated, a dust mask may be needed. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

GOOD HYGEIENE/WORK PRACTICES: Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.

EXPOSURE GUIDELINES

PERMISSIBLE EXPOSURE LIMITS						
INGREDIENT CAS NO.	OSHA		WISHA		ACGIH (TLV)	
	TWA	STEL	TWA	STEL	TWA	STEL

Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Off-white.
PHYSICAL FORM: Fine powder.
pH: Not available
VAPOR DENSITY: Not available
MELTING POINT: Not available
SOLUBILITY IN WATER: Soluble
SHAPE: Fine powder.
ODOR: None
VAPOR PRESSURE: Not available
BOILING POINT: Not available
FREEZING POINT: Not available
SPECIFIC GRAVITY OR DENSITY: Not available

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Values should not be construed as a guaranteed analysis of any specific lot or as specifications.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: None known.

MATERIALS TO AVOID (INCOMPATIBILITY): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Not known.

SECTION 11: TOXICOLOGICAL INFORMATION

ORAL LD_{50} (mice): >10g/kg

DERMAL LD_{50} (rabbit): Not available.

SKIN IRRITATION: Not available.

EYE IRRITATION: Not available.

SKIN SENSITIZATION: Not available.

ADDITIONAL INFORMATION: Not available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY (in water):

Acute Toxicity

- Daphnia: LC50 – 135 mg/L
- Daphnia: LC25 – Not Calculable
- Fathead Minnows: LC50 – 22.8 mg/L
- Fathead Minnows: LC25 – 16.9 mg/L

- Rainbow Trout: LC50 – 6.4 mg/L
- Rainbow Trout: LC25 – 4.4 mg/L

Chronic Toxicity
- Rainbow Trout: LC50 (survival) – 5.3 mg/L, 7 days
- Rainbow Trout: LC25 (survival) – 4.8 mg/L, 7 days
- Rainbow Trout: EC25 (biomass) – 3.5 mg/L, 7 days
- Fathead Minnows: LC50 (survival) – 25.4 mg/L, 7 days
- Fathead Minnows: LC25 (survival) – Not Calculable
- Fathead Minnows: EC25 (biomass) – 13.9 mg/L, 7 days

MOBILITY: Not available.

PERSISTENCE AND DEGRADABILITY: Not available.

BIOACCUMULATIVE POTENTIAL: Not available.

ADDITIONAL INFORMATION: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT):

Proper Shipping Name:	Not Regulated
Hazard Class:	Not Regulated
Identification Number (UN Number):	Not Regulated
Packing Group (PG):	Not Regulated

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Listed

CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS):

CHEMICAL NAME	TPQ	RQ

Not applicable	Not applicable	Not applicable

SARA TITLE III SECTION 311/312 HAZARD CATEGORIES: Does this product/material meet the definition of the following hazard classes according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of SARA Title III?

ACUTE HEALTH HAZARD	CHRONIC HEALTH HAZARD	FIRE HAZARD	REACTIVE HAZARD	SUDDEN RELEASE OF PRESSURE
YES	NO	NO	NO	NO

SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

CALIFORNIA PROPOSITION 65: The following chemical(s) is/are known to the state of California to cause cancer or reproductive toxicity:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:
MSDS sections(s) changed since last revision of document:

- None, this is a new MSDS.

DISCLAIMER:
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The above information is based upon information HaloSource, Inc. believes to be reliable and is supplied for informational purposes only. HaloSource, Inc. disclaims any liability for damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to HaloSource, Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.
****

MSDS PREPARED BY: Jeremy Heath, EH&S Manager

User: KHagan

Date: 9/10/2013

Source: ESRI World Imagery, ESRI, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community. Date of image: 05/22/2010
SPREAD3_IFC_8470SEG2A_060313_CL.shp, SPREAD3_IFC_8470SEG2A_060313_CROW.shp provided by JFC Engineers & Surveyors on June 18, 2013

N

25 0 25 50

Feet

Locations are Approximate

KLEINFELDER
Bright People. Right Solutions.
www.kleinfelder.com

PROJECT NO.:	134288
DRAWN:	AUG 2013
DRAWN BY:	KFH
CHECKED BY:	ES
FILE NAME:	Seg2A_FigureG1.mxd

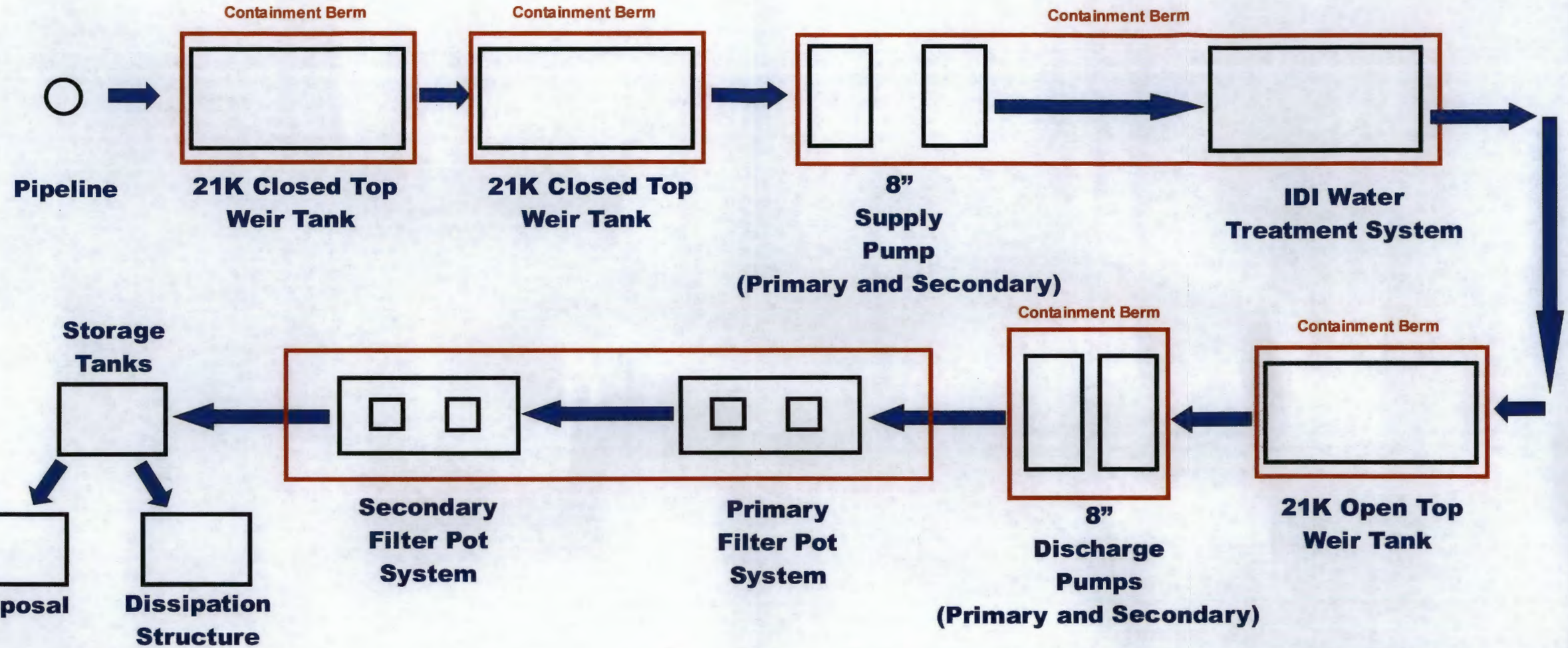
ELECTRO-COAGULATION TREATMENT AND DISCHARGE LOCATION, WEP III SEGMENT 2A

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES

DRAWING CATEGORY: 1

FIGURE **G-1**



Source: IDI; Process Diagram, Hydrostatic Pipeline Water Filtration, Enterprise Products, dated 07/16/13.

KLEINFELDER
Bright People. Right Solutions.
www.kleinfelder.com

PROJECT NO.:	134288
DRAWN:	AUG 2013
DRAWN BY:	KFH
CHECKED BY:	ES
FILE NAME:	Seg2A_FigureG2.mxd

PROCESS DIAGRAM
ELECTRO-COAGULATION FILTRATION SYSTEM

ENTERPRISE PRODUCTS OPERATING LLC
MCKINLEY COUNTY, NEW MEXICO

ORIGINATOR: K. HAGAN
APPROVED BY: ES
DRAWING CATEGORY: 1

FIGURE
G-2

User: KHagan
Date: 8/29/2013

APPENDIX H
Horn Well Analytical Data

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 25, 2013

Kay Lambert

HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505
TEL: (970) 243-3271
FAX

RE: Enterprise WEP III Water Sampling OrderNo.: 1304170

Dear Kay Lambert:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/3/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1304170**
Date Reported: **4/25/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: Horn Pond
Project: Enterprise WEP III Water Sampling
Collection Date: 4/3/2013 2:30:00 PM
Lab ID: 1304170-001 **Matrix:** AQUEOUS **Received Date:** 4/3/2013 5:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB						Analyst: **LRW**
1,2-Dibromoethane	ND	0.010		µg/L	1	4/10/2013 12:59:35 PM
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	1.0		µg/L	1	4/9/2013 10:10:32 AM
Aroclor 1221	ND	1.0		µg/L	1	4/9/2013 10:10:32 AM
Aroclor 1232	ND	1.0		µg/L	1	4/9/2013 10:10:32 AM
Aroclor 1242	ND	1.0		µg/L	1	4/9/2013 10:10:32 AM
Aroclor 1248	ND	1.0		µg/L	1	4/9/2013 10:10:32 AM
Aroclor 1254	ND	1.0		µg/L	1	4/9/2013 10:10:32 AM
Aroclor 1260	ND	1.0		µg/L	1	4/9/2013 10:10:32 AM
Surr: Decachlorobiphenyl	104	23.9-124		%REC	1	4/9/2013 10:10:32 AM
Surr: Tetrachloro-m-xylene	87.2	28.1-139		%REC	1	4/9/2013 10:10:32 AM
EPA METHOD 8310: PAHS						Analyst: **SCC**
Naphthalene	ND	2.0		µg/L	1	4/17/2013 12:21:01 AM
1-Methylnaphthalene	ND	2.0		µg/L	1	4/17/2013 12:21:01 AM
2-Methylnaphthalene	ND	2.0		µg/L	1	4/17/2013 12:21:01 AM
Acenaphthylene	ND	2.5		µg/L	1	4/17/2013 12:21:01 AM
Acenaphthene	ND	5.0		µg/L	1	4/17/2013 12:21:01 AM
Fluorene	ND	0.80		µg/L	1	4/17/2013 12:21:01 AM
Phenanthrene	ND	0.60		µg/L	1	4/17/2013 12:21:01 AM
Anthracene	ND	0.60		µg/L	1	4/17/2013 12:21:01 AM
Fluoranthene	ND	0.30		µg/L	1	4/17/2013 12:21:01 AM
Pyrene	ND	0.30		µg/L	1	4/17/2013 12:21:01 AM
Benz(a)anthracene	ND	0.070		µg/L	1	4/17/2013 12:21:01 AM
Chrysene	ND	0.20		µg/L	1	4/17/2013 12:21:01 AM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	4/17/2013 12:21:01 AM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	4/17/2013 12:21:01 AM
Benzo(a)pyrene	ND	0.070		µg/L	1	4/17/2013 12:21:01 AM
Dibenz(a,h)anthracene	ND	0.12		µg/L	1	4/17/2013 12:21:01 AM
Benzo(g,h,i)perylene	ND	0.12		µg/L	1	4/17/2013 12:21:01 AM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	4/17/2013 12:21:01 AM
Surr: Benzo(e)pyrene	58.5	46.4-106		%REC	1	4/17/2013 12:21:01 AM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	0.47	0.10		mg/L	1	4/4/2013 9:52:37 PM
Chloride	3.8	0.50		mg/L	1	4/4/2013 9:52:37 PM
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	4/4/2013 9:52:37 PM
Sulfate	140	10		mg/L	20	4/4/2013 10:05:02 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **JLF**
Aluminum	ND	0.10		mg/L	5	4/4/2013 9:50:55 PM
Barium	0.021	0.010		mg/L	5	4/4/2013 9:50:55 PM
Boron	ND	0.20		mg/L	5	4/4/2013 9:50:55 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: Horn Pond
Project: Enterprise WEP III Water Sampling
Collection Date: 4/3/2013 2:30:00 PM
Lab ID: 1304170-001
Matrix: AQUEOUS
Received Date: 4/3/2013 5:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **JLF**
Cadmium	ND	0.010		mg/L	5	4/4/2013 9:50:55 PM
Chromium	ND	0.030		mg/L	5	4/4/2013 9:50:55 PM
Cobalt	ND	0.030		mg/L	5	4/4/2013 9:50:55 PM
Copper	ND	0.030		mg/L	5	4/4/2013 9:50:55 PM
Iron	ND	0.10		mg/L	5	4/4/2013 9:50:55 PM
Lead	ND	0.025		mg/L	5	4/4/2013 9:50:55 PM
Manganese	ND	0.010		mg/L	5	4/4/2013 9:50:55 PM
Molybdenum	ND	0.040		mg/L	5	4/4/2013 9:50:55 PM
Nickel	ND	0.050		mg/L	5	4/4/2013 9:50:55 PM
Silver	ND	0.025		mg/L	5	4/4/2013 9:50:55 PM
Zinc	ND	0.050		mg/L	5	4/4/2013 9:50:55 PM
EPA 200.8: DISSOLVED METALS						Analyst: **DBD**
Arsenic	ND	0.0010		mg/L	1	4/22/2013 4:55:31 PM
Selenium	ND	0.0010		mg/L	1	4/22/2013 4:55:31 PM
Uranium	ND	0.0010		mg/L	1	4/22/2013 1:33:14 PM
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	4/10/2013 1:40:11 PM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Toluene	2.6	1.0		µg/L	1	4/11/2013 5:39:07 AM
Ethylbenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Naphthalene	ND	2.0		µg/L	1	4/11/2013 5:39:07 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2013 5:39:07 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2013 5:39:07 AM
Acetone	ND	10		µg/L	1	4/11/2013 5:39:07 AM
Bromobenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Bromoform	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Bromomethane	ND	3.0		µg/L	1	4/11/2013 5:39:07 AM
2-Butanone	ND	10		µg/L	1	4/11/2013 5:39:07 AM
Carbon disulfide	ND	10		µg/L	1	4/11/2013 5:39:07 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Chlorobenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Chloroethane	ND	2.0		µg/L	1	4/11/2013 5:39:07 AM
Chloroform	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: Horn Pond
Project: Enterprise WEP III Water Sampling
Collection Date: 4/3/2013 2:30:00 PM
Lab ID: 1304170-001
Matrix: AQUEOUS
Received Date: 4/3/2013 5:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Chloromethane	ND	3.0		µg/L	1	4/11/2013 5:39:07 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/11/2013 5:39:07 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Dibromomethane	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/11/2013 5:39:07 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
2-Hexanone	ND	10		µg/L	1	4/11/2013 5:39:07 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/11/2013 5:39:07 AM
Methylene Chloride	ND	3.0		µg/L	1	4/11/2013 5:39:07 AM
n-Butylbenzene	ND	3.0		µg/L	1	4/11/2013 5:39:07 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Styrene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/11/2013 5:39:07 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/11/2013 5:39:07 AM
Vinyl chloride	ND	1.0		µg/L	1	4/11/2013 5:39:07 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: Horn Pond
Project: Enterprise WEP III Water Sampling
Collection Date: 4/3/2013 2:30:00 PM
Lab ID: 1304170-001 **Matrix:** AQUEOUS **Received Date:** 4/3/2013 5:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Xylenes, Total	ND	1.5		µg/L	1	4/11/2013 5:39:07 AM
Surr: 1,2-Dichloroethane-d4	87.6	70-130		%REC	1	4/11/2013 5:39:07 AM
Surr: 4-Bromofluorobenzene	99.9	69.5-130		%REC	1	4/11/2013 5:39:07 AM
Surr: Dibromofluoromethane	90.9	70-130		%REC	1	4/11/2013 5:39:07 AM
Surr: Toluene-d8	94.1	70-130		%REC	1	4/11/2013 5:39:07 AM
TOTAL PHENOLICS BY SW-846 9067						Analyst: **SCC**
Phenolics, Total Recoverable	ND	2.5		µg/L	1	4/15/2013
SM4500-H+B: PH						Analyst: **JML**
pH	9.54	1.68	*H	pH units	1	4/4/2013 4:57:08 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	440	20.0		mg/L	1	4/11/2013 1:49:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: TRIP BLANK
Project: Enterprise WEP III Water Sampling
Collection Date:
Lab ID: 1304170-002
Matrix: TRIP BLANK
Received Date: 4/3/2013 5:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB						Analyst: **LRW**
1,2-Dibromoethane	ND	0.010		µg/L	1	4/10/2013 1:13:23 PM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Toluene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Ethylbenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Naphthalene	ND	2.0		µg/L	1	4/11/2013 6:07:23 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2013 6:07:23 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2013 6:07:23 AM
Acetone	ND	10		µg/L	1	4/11/2013 6:07:23 AM
Bromobenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Bromoform	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Bromomethane	ND	3.0		µg/L	1	4/11/2013 6:07:23 AM
2-Butanone	ND	10		µg/L	1	4/11/2013 6:07:23 AM
Carbon disulfide	ND	10		µg/L	1	4/11/2013 6:07:23 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Chlorobenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Chloroethane	ND	2.0		µg/L	1	4/11/2013 6:07:23 AM
Chloroform	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Chloromethane	ND	3.0		µg/L	1	4/11/2013 6:07:23 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/11/2013 6:07:23 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Dibromomethane	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/11/2013 6:07:23 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HRL Compliance Solutions
Client Sample ID: TRIP BLANK
Project: Enterprise WEP III Water Sampling
Collection Date:
Lab ID: 1304170-002
Matrix: TRIP BLANK
Received Date: 4/3/2013 5:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1,1-Dichloropropene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
2-Hexanone	ND	10		µg/L	1	4/11/2013 6:07:23 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/11/2013 6:07:23 AM
Methylene Chloride	ND	3.0		µg/L	1	4/11/2013 6:07:23 AM
n-Butylbenzene	ND	3.0		µg/L	1	4/11/2013 6:07:23 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Styrene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/11/2013 6:07:23 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/11/2013 6:07:23 AM
Vinyl chloride	ND	1.0		µg/L	1	4/11/2013 6:07:23 AM
Xylenes, Total	ND	1.5		µg/L	1	4/11/2013 6:07:23 AM
Surr: 1,2-Dichloroethane-d4	87.9	70-130		%REC	1	4/11/2013 6:07:23 AM
Surr: 4-Bromofluorobenzene	98.8	69.5-130		%REC	1	4/11/2013 6:07:23 AM
Surr: Dibromofluoromethane	89.5	70-130		%REC	1	4/11/2013 6:07:23 AM
Surr: Toluene-d8	92.7	70-130		%REC	1	4/11/2013 6:07:23 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	130405024
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	1304170
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	130405024-001	**Sampling Date**	4/3/2013	**Date/Time Received**	4/5/2013	12:12 PM	
Client Sample ID	1304170-001I / HORN POND	**Sampling Time**	2:30 PM				
Matrix	Water						
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	4/12/2013	CRW	EPA 335.4	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Pace Analytical
www.pacelabs.com

1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1304170
Pace Project No.: 3091133

Sample: 1304170-001 Horn Pond **Lab ID: 3091133001** Collected: 04/03/13 14:30 Received: 04/05/13 09:50 Matrix: Water
WS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	**0.298 ± 0.366 (0.597)**	pCi/L	04/19/13 13:41	13982-63-3	
Radium-228	EPA 904.0	**0.311 ± 0.354 (0.739)**	pCi/L	04/18/13 14:21	15262-20-1	

Date: 04/22/2013 01:17 PM

REPORT OF LABORATORY ANALYSIS

Pace Analytical
www.pacelabs.com

1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1304170
Pace Project No.: 3091133

QC Batch: RADC/15344
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Associated Lab Samples: 3091133001

METHOD BLANK: 565474
Matrix: Water
Associated Lab Samples: 3091133001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-228	0.172 ± 0.356 (0.797)	pCi/L	04/18/13 11:40	

Date: 04/22/2013 01:17 PM

REPORT OF LABORATORY ANALYSIS

Pace Analytical
www.pacelabs.com

1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1304170
Pace Project No.: 3091133

QC Batch: RADC/15325
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Associated Lab Samples: 3091133001

METHOD BLANK: 564517
Matrix: Water
Associated Lab Samples: 3091133001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.725 ± 0.477 (0.639)	pCi/L	04/19/13 11:47	

REPORT OF LABORATORY ANALYSIS

QC SUMMARY REPORT

WO#: **1304170**

Iall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

roject: Enterprise WEP III Water Sampling

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **PBW** Batch ID: **R9662** RunNo: **9662**

Prep Date: **2/22/2013** Analysis Date: **4/4/2013** SeqNo: **275501** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
uminum	ND	0.020								
Barium	ND	0.0020								
Boron	ND	0.040								
admium	ND	0.0020								
hromium	ND	0.0060								
Cobalt	ND	0.0060								
opper	ND	0.0060								
on	ND	0.020								
Lead	ND	0.0050								
Manganese	ND	0.0020								
olybdenum	ND	0.0080								
Nickel	ND	0.010								
Silver	ND	0.0050								
nc	ND	0.010								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **LCSW** Batch ID: **R9662** RunNo: **9662**

Prep Date: Analysis Date: **4/4/2013** SeqNo: **275502** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
luminum	0.55	0.020	0.5000	0	111	85	115			
arium	0.49	0.0020	0.5000	0	97.6	85	115			
Boron	0.50	0.040	0.5000	0	101	85	115			
admium	0.49	0.0020	0.5000	0	98.9	85	115			
hromium	0.48	0.0060	0.5000	0	96.6	85	115			
Cobalt	0.47	0.0060	0.5000	0	94.2	85	115			
Copper	0.48	0.0060	0.5000	0	96.5	85	115			
on	0.48	0.020	0.5000	0	95.8	85	115			
ead	0.49	0.0050	0.5000	0	98.2	85	115			
Manganese	0.48	0.0020	0.5000	0	95.3	85	115			
olybdenum	0.51	0.0080	0.5000	0	102	85	115			
ickel	0.47	0.010	0.5000	0	93.5	85	115			
Silver	0.10	0.0050	0.1000	0	100	85	115			
Zinc	0.48	0.010	0.5000	0	96.6	85	115			

ualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

Hall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID	1304321-006AMS	SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	BatchQC	Batch ID:	R10026		RunNo:	10026				
Prep Date:		Analysis Date:	4/22/2013		SeqNo:	285707	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.16	0.0050	0.1250	0.03768	100	70	130			

Sample ID	LCS	SampType:	LCS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	LCSW	Batch ID:	R10026		RunNo:	10026				
Prep Date:		Analysis Date:	4/22/2013		SeqNo:	285715	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	100	85	115			
Selenium	0.024	0.0010	0.02500	0	97.2	85	115			
Uranium	0.026	0.0010	0.02500	0	104	85	115			

Sample ID	MB	SampType:	MBLK		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	PBW	Batch ID:	R10026		RunNo:	10026				
Prep Date:		Analysis Date:	4/22/2013		SeqNo:	285717	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Sample ID	1304321-006AMS	SampType:	MS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	BatchQC	Batch ID:	R10026		RunNo:	10026				
Prep Date:		Analysis Date:	4/22/2013		SeqNo:	285839	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.028	0.0010	0.02500	0.0003567	109	70	130			
Selenium	0.028	0.0010	0.02500	0.001151	107	70	130			

Sample ID	LCS	SampType:	LCS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	LCSW	Batch ID:	R10026		RunNo:	10026				
Prep Date:		Analysis Date:	4/22/2013		SeqNo:	285841	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0	103	85	115			
Selenium	0.025	0.0010	0.02500	0	101	85	115			
Uranium	0.027	0.0010	0.02500	0	107	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

lall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

roject: Enterprise WEP III Water Sampling

Sample ID **MB**	SampType: **MBLK**			TestCode: **EPA 200.8: Dissolved Metals**						
:lient ID: **PBW**	Batch ID: **R10026**			RunNo: **10026**						
,'rep Date:	Analysis Date: **4/22/2013**			SeqNo: **285842**		Units: **mg/L**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
senic	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

ualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304170**

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID	**MB-6889**	SampType:	**mblk**		TestCode:	**EPA Method 245.1: Mercury**				
Client ID:	**PBW**	Batch ID:	**6889**		RunNo:	**9762**				
Prep Date:	**4/9/2013**	Analysis Date:	**4/10/2013**		SeqNo:	**278143**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	**LCS-6889**	SampType:	**lcs**		TestCode:	**EPA Method 245.1: Mercury**				
Client ID:	**LCSW**	Batch ID:	**6889**		RunNo:	**9762**				
Prep Date:	**4/9/2013**	Analysis Date:	**4/10/2013**		SeqNo:	**278144**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	103	80	120			

Sample ID	**1304170-001FMS**	SampType:	**ms**		TestCode:	**EPA Method 245.1: Mercury**				
Client ID:	**Horn Pond**	Batch ID:	**6889**		RunNo:	**9762**				
Prep Date:	**4/9/2013**	Analysis Date:	**4/10/2013**		SeqNo:	**278152**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	103	75	125			

Sample ID	**1304170-001FMSD**	SampType:	**msd**		TestCode:	**EPA Method 245.1: Mercury**				
Client ID:	**Horn Pond**	Batch ID:	**6889**		RunNo:	**9762**				
Prep Date:	**4/9/2013**	Analysis Date:	**4/10/2013**		SeqNo:	**278153**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	101	75	125	1.11	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

Hall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R9672**	RunNo: **9672**
Prep Date:	Analysis Date: **4/4/2013**	SeqNo: **275620** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R9672**	RunNo: **9672**
Prep Date:	Analysis Date: **4/4/2013**	SeqNo: **275621** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	97.1	90	110			
Chloride	4.7	0.50	5.000	0	93.2	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.2	90	110			
Sulfate	9.4	0.50	10.00	0	94.0	90	110			

Sample ID **LCSD**	SampType: **LCSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS02**	Batch ID: **R9672**	RunNo: **9672**
Prep Date:	Analysis Date: **4/4/2013**	SeqNo: **275622** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	96.6	90	110	0.496	20	
Chloride	4.6	0.50	5.000	0	92.6	90	110	0.648	20	
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	96.7	90	110	0.565	20	
Sulfate	9.3	0.50	10.00	0	93.4	90	110	0.602	20	

Sample ID **1304185-001FMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R9672**	RunNo: **9672**
Prep Date:	Analysis Date: **4/4/2013**	SeqNo: **275624** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	120	5.0	125.0	0	96.1	90.4	113			

Sample ID **1304185-001FMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R9672**	RunNo: **9672**
Prep Date:	Analysis Date: **4/4/2013**	SeqNo: **275625** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	120	5.0	125.0	0	95.5	90.4	113	0.660	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

lall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

roject: Enterprise WEP III Water Sampling

Sample ID	1304175-010AMS	SampType:	MS		TestCode:	EPA Method 300.0: Anions				
Client ID:	BatchQC	Batch ID:	R9672		RunNo:	9672				
Prep Date:		Analysis Date:	4/4/2013		SeqNo:	275636	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
uoride	0.86	0.10	0.5000	0.3813	96.7	76.6	110			

Sample ID	1304175-010AMSD	SampType:	MSD		TestCode:	EPA Method 300.0: Anions				
Client ID:	BatchQC	Batch ID:	R9672		RunNo:	9672				
Prep Date:		Analysis Date:	4/4/2013		SeqNo:	275637	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
uoride	0.85	0.10	0.5000	0.3813	94.5	76.6	110	1.28	20	

Sample ID	MB	SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBW	Batch ID:	R9672		RunNo:	9672				
Prep Date:		Analysis Date:	4/5/2013		SeqNo:	275693	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
uoride	ND	0.10								
hloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
lfate	ND	0.50								

Sample ID	LCS	SampType:	LCS		TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSW	Batch ID:	R9672		RunNo:	9672				
Prep Date:		Analysis Date:	4/5/2013		SeqNo:	275694	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
uoride	0.49	0.10	0.5000	0	98.5	90	110			
hloride	4.7	0.50	5.000	0	94.6	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.3	90	110			
ulfate	9.5	0.50	10.00	0	94.8	90	110			

Sample ID	1304202-001AMS	SampType:	MS		TestCode:	EPA Method 300.0: Anions				
Client ID:	BatchQC	Batch ID:	R9672		RunNo:	9672				
Prep Date:		Analysis Date:	4/5/2013		SeqNo:	275696	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
luoride	0.63	0.10	0.5000	0.1600	94.9	76.6	110			
hloride	8.1	0.50	5.000	2.973	102	87.8	111			
Nitrogen, Nitrate (As N)	2.9	0.10	2.500	0.3987	101	90.4	113			
Sulfate	13	0.50	10.00	2.664	98.5	84.6	122			

ualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304170**

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID	**1304202-001AMSD**	SampType: **MSD**		TestCode: **EPA Method 300.0: Anions**					
Client ID:	**BatchQC**	Batch ID: **R9672**		RunNo: **9672**					
Prep Date:		Analysis Date: **4/5/2013**		SeqNo: **275697**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.64	0.10	0.5000	0.1600	95.3	76.6	110	0.378	20	
Chloride	8.1	0.50	5.000	2.973	103	87.8	111	0.589	20	
Nitrogen, Nitrate (As N)	2.9	0.10	2.500	0.3987	102	90.4	113	0.654	20	
Sulfate	13	0.50	10.00	2.664	99.6	84.6	122	0.872	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

Hall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID **MB-6911**	SampType: **MBLK**	TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **PBW**	Batch ID: **6911**	RunNo: **9763**
Prep Date: **4/10/2013**	Analysis Date: **4/10/2013**	SeqNo: **278072** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID **LCS-6911**	SampType: **LCS**	TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **LCSW**	Batch ID: **6911**	RunNo: **9763**
Prep Date: **4/10/2013**	Analysis Date: **4/10/2013**	SeqNo: **278073** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.086	0.010	0.1000	0	86.0	70	130			

Sample ID **LCSD-6911**	SampType: **LCS**	TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **LCSW**	Batch ID: **6911**	RunNo: **9763**
Prep Date: **4/10/2013**	Analysis Date: **4/10/2013**	SeqNo: **278074** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.091	0.010	0.1000	0	91.0	70	130	5.65	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

Iall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

roject: Enterprise WEP III Water Sampling

Sample ID **MB-6848** SampType: **MBLK** TestCode: **EPA Method 8082: PCB's**

Client ID: **PBW** Batch ID: **6848** RunNo: **9743**

Prep Date: **4/5/2013** Analysis Date: **4/9/2013** SeqNo: **277535** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
roclor 1016	ND	1.0								
Aroclor 1221	ND	1.0								
Aroclor 1232	ND	1.0								
roclor 1242	ND	1.0								
roclor 1248	ND	1.0								
Aroclor 1254	ND	1.0								
roclor 1260	ND	1.0								
Surr: Decachlorobiphenyl	2.6		2.500		105	23.9	124			
Surr: Tetrachloro-m-xylene	2.1		2.500		82.4	28.1	139			

Sample ID **LCS-6848** SampType: **LCS** TestCode: **EPA Method 8082: PCB's**

Client ID: **LCSW** Batch ID: **6848** RunNo: **9743**

Prep Date: **4/5/2013** Analysis Date: **4/9/2013** SeqNo: **277537** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	3.3	1.0	5.000	0	65.0	32.3	121			
Aroclor 1260	4.7	1.0	5.000	0	94.6	34	128			
Surr: Decachlorobiphenyl	2.5		2.500		101	23.9	124			
Surr: Tetrachloro-m-xylene	1.9		2.500		76.4	28.1	139			

Sample ID **LCSD-6848** SampType: **LCSD** TestCode: **EPA Method 8082: PCB's**

Client ID: **LCSS02** Batch ID: **6848** RunNo: **9743**

Prep Date: **4/5/2013** Analysis Date: **4/9/2013** SeqNo: **277539** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	3.5	1.0	5.000	0	70.0	32.3	121	7.41	29.9	
Aroclor 1260	5.1	1.0	5.000	0	103	34	128	8.16	25.9	
Surr: Decachlorobiphenyl	2.7		2.500		110	23.9	124	0	0	
Surr: Tetrachloro-m-xylene	2.1		2.500		83.2	28.1	139	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

Hall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R9782**	RunNo: **9782**
Prep Date:	Analysis Date: **4/10/2013**	SeqNo: **278596** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	21	1.0	20.00	0	107	70	130			
oluene	21	1.0	20.00	0	107	80	120			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
,1-Dichloroethene	21	1.0	20.00	0	104	85.8	133			
richloroethene (TCE)	19	1.0	20.00	0	95.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.9	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.2	69.5	130			
Surr: Dibromofluoromethane	8.8		10.00		88.3	70	130			
Surr: Toluene-d8	9.3		10.00		93.2	70	130			

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R9782**	RunNo: **9782**
Prep Date:	Analysis Date: **4/10/2013**	SeqNo: **278597** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
thylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
,3,5-Trimethylbenzene	ND	1.0								
,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

Hall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R9782**	RunNo: **9782**	
Prep Date:	Analysis Date: **4/10/2013**	SeqNo: **278597**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
s-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
ibromochloromethane	ND	1.0								
ibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
,3-Dichlorobenzene	ND	1.0								
,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
,1-Dichloroethene	ND	1.0								
,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
,2-Dichloropropane	ND	2.0								
,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
sopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
lethylene Chloride	ND	3.0								
-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
ec-Butylbenzene	ND	1.0								
tyrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
,1,2,2-Tetrachloroethane	ND	2.0								
etrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
rans-1,3-Dichloropropene	ND	1.0								
,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
,1,1-Trichloroethane	ND	1.0								
,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
,2,3-Trichloropropane	ND	2.0								
/inyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304170**

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R9782**	RunNo: **9782**
Prep Date:	Analysis Date: **4/10/2013**	SeqNo: **278597** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.3	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	69.5	130			
Surr: Dibromofluoromethane	9.1		10.00		91.4	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Sample ID **1304186-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R9782**	RunNo: **9782**
Prep Date:	Analysis Date: **4/10/2013**	SeqNo: **278607** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	21	1.0	20.00	0	105	70	130			
oluene	21	1.0	20.00	0	106	68.5	128			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1-Dichloroethene	21	1.0	20.00	0	103	70	130			
richloroethene (TCE)	20	1.0	20.00	0	98.1	61.3	102			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.5	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.9	69.5	130			
Surr: Dibromofluoromethane	9.2		10.00		92.2	70	130			
Surr: Toluene-d8	9.5		10.00		94.8	70	130			

Sample ID **1304186-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R9782**	RunNo: **9782**
Prep Date:	Analysis Date: **4/10/2013**	SeqNo: **278615** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	21	1.0	20.00	0	105	70	130	0.260	20	
Toluene	20	1.0	20.00	0	102	68.5	128	3.56	20	
hlorobenzene	20	1.0	20.00	0	100	70	130	1.47	20	
1-Dichloroethene	20	1.0	20.00	0	97.9	70	130	5.41	20	
Trichloroethene (TCE)	19	1.0	20.00	0	96.1	61.3	102	2.15	20	
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.6		10.00		96.1	69.5	130	0	0	
Surr: Dibromofluoromethane	9.3		10.00		93.5	70	130	0	0	
Surr: Toluene-d8	9.4		10.00		93.8	70	130	0	0	

Sample ID **b3**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R9782**	RunNo: **9782**
Prep Date:	Analysis Date: **4/10/2013**	SeqNo: **278616** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

lall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

roject: Enterprise WEP III Water Sampling

Sample ID **b3**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
:lient ID: **PBW**	Batch ID: **R9782**	RunNo: **9782**	
.'rep Date:	Analysis Date: **4/10/2013**	SeqNo: **278616**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
)luene	ND	1.0								
..thylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
2,4-Trimethylbenzene	ND	1.0								
3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
' 2-Dibromoethane (EDB)	ND	1.0								
aphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
:etone	ND	10								
..omobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
'omoform	ND	1.0								
'omomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
arbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
hloroform	ND	1.0								
hloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
Chlorotoluene	ND	1.0								
s-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
bromochloromethane	ND	1.0								
..ibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
3-Dichlorobenzene	ND	1.0								
4-Dichlorobenzene	ND	1.0								
)ichlorodifluoromethane	ND	1.0								
1-Dichloroethane	ND	1.0								
1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2-Dichloropropane	ND	2.0								
.,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								

)ualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304170**

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID **b3**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R9782**	RunNo: **9782**
Prep Date:	Analysis Date: **4/10/2013**	SeqNo: **278616** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-Hexanone	ND	10								
sopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
-Methyl-2-pentanone	ND	10								
ethylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
-Propylbenzene	ND	1.0								
ec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
,1,1,2-Tetrachloroethane	ND	1.0								
,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
ans-1,2-DCE	ND	1.0								
ans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
,2,4-Trichlorobenzene	ND	1.0								
,1,1-Trichloroethane	ND	1.0								
,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
richlorofluoromethane	ND	1.0								
,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
ylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.8	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	69.5	130			
Surr: Dibromofluoromethane	9.1		10.00		90.6	70	130			
Surr: Toluene-d8	9.7		10.00		96.6	70	130			

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R9782**	RunNo: **9782**
Prep Date:	Analysis Date: **4/11/2013**	SeqNo: **278618** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	114	70	130			
Toluene	22	1.0	20.00	0	109	80	120			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
,1-Dichloroethene	21	1.0	20.00	0	105	85.8	133			
richloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.4	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

Hall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R9782**	RunNo: **9782**
Prep Date:	Analysis Date: **4/11/2013**	SeqNo: **278618** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.8		10.00		97.6	69.5	130			
Surr: Dibromofluoromethane	9.0		10.00		90.2	70	130			
Surr: Toluene-d8	9.2		10.00		92.4	70	130			

Sample ID **1304086-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R9782**	RunNo: **9782**
Prep Date:	Analysis Date: **4/11/2013**	SeqNo: **278628** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	111	70	130			
oluene	22	1.0	20.00	0	111	68.5	128			
hlorobenzene	22	1.0	20.00	0	108	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	100	70	130			
richloroethene (TCE)	19	1.0	20.00	0	95.6	61.3	102			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	69.5	130			
Surr: Dibromofluoromethane	8.8		10.00		88.2	70	130			
Surr: Toluene-d8	9.5		10.00		94.8	70	130			

Sample ID **1304086-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R9782**	RunNo: **9782**
Prep Date:	Analysis Date: **4/11/2013**	SeqNo: **278629** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
enzene	22	1.0	20.00	0	112	70	130	1.43	20	
oluene	22	1.0	20.00	0	111	68.5	128	0.0765	20	
Chlorobenzene	22	1.0	20.00	0	108	70	130	0.126	20	
,1-Dichloroethene	21	1.0	20.00	0	103	70	130	3.00	20	
richloroethene (TCE)	20	1.0	20.00	0	101	61.3	102	5.23	20	
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		101	69.5	130	0	0	
Surr: Dibromofluoromethane	9.3		10.00		93.3	70	130	0	0	
Surr: Toluene-d8	9.4		10.00		94.5	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304170**

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID	MB-6953	SampType:	MBLK		TestCode:	EPA Method 8310: PAHs				
Client ID:	PBW	Batch ID:	6953		RunNo:	9888				
Prep Date:	4/12/2013	Analysis Date:	4/16/2013		SeqNo:	281420	Units:	%REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Benzo(e)pyrene	16		20.00		82.2	46.4	106			

Sample ID	LCS-6953	SampType:	LCS		TestCode:	EPA Method 8310: PAHs				
Client ID:	LCSW	Batch ID:	6953		RunNo:	9888				
Prep Date:	4/12/2013	Analysis Date:	4/16/2013		SeqNo:	281481	Units:	%REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Benzo(e)pyrene	15		20.00		75.4	46.4	106			

Sample ID	LCSD-6953	SampType:	LCSD		TestCode:	EPA Method 8310: PAHs				
Client ID:	LCSS02	Batch ID:	6953		RunNo:	9888				
Prep Date:	4/12/2013	Analysis Date:	4/16/2013		SeqNo:	281488	Units:	%REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Benzo(e)pyrene	14		20.00		71.4	46.4	106	0		

Sample ID	MB-6849	SampType:	MBLK		TestCode:	EPA Method 8310: PAHs				
Client ID:	PBW	Batch ID:	6849		RunNo:	9888				
Prep Date:	4/5/2013	Analysis Date:	4/16/2013		SeqNo:	281766	Units:	µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
aphthalene	ND	2.0								
-Methylnaphthalene	ND	2.0								
2-Methylnaphthalene	ND	2.0								
cenaphthylene	ND	2.5								
cenaphthene	ND	5.0								
Fluorene	ND	0.80								
henanthrene	ND	0.60								
nthracene	ND	0.60								
Fluoranthene	ND	0.30								
Pyrene	ND	0.30								
enz(a)anthracene	ND	0.070								
hrysene	ND	0.20								
Benzo(b)fluoranthene	ND	0.10								
enzo(k)fluoranthene	ND	0.070								
enzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.12								
enzo(g,h,i)perylene	ND	0.12								
ideno(1,2,3-cd)pyrene	ND	0.080								
Surr: Benzo(e)pyrene	18		20.00		87.8	46.4	106			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304170**

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID **LCS-6849**	SampType: **LCS**	TestCode: **EPA Method 8310: PAHs**
Client ID: **LCSW**	Batch ID: **6849**	RunNo: **9888**
Prep Date: **4/5/2013**	Analysis Date: **4/16/2013**	SeqNo: **281771** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
aphthalene	59	2.0	80.00	0	73.8	46	82.9			
1-Methylnaphthalene	63	2.0	80.20	0	78.1	47.2	85.8			
2-Methylnaphthalene	65	2.0	80.00	0	81.5	48.4	84.6			
cenaphthylene	50	2.5	80.20	0	61.8	58.7	78.7			
cenaphthene	64	5.0	80.00	0	80.0	55.3	85.1			
Fluorene	6.3	0.80	8.020	0	79.1	31.9	82.2			
Phenanthrene	3.0	0.60	4.020	0	75.6	54.5	81.9			
nthracene	3.0	0.60	4.020	0	74.6	51.9	82.7			
Fluoranthene	6.5	0.30	8.020	0	81.2	57.6	83.7			
Pyrene	5.1	0.30	8.020	0	63.2	53.1	70.4			
enz(a)anthracene	0.66	0.070	0.8020	0	82.3	48	85.7			
hrysene	3.0	0.20	4.020	0	74.9	44.3	78.2			
Benzo(b)fluoranthene	0.85	0.10	1.002	0	84.8	60	90.4			
enzo(k)fluoranthene	0.42	0.070	0.5000	0	84.0	61.4	89			
enzo(a)pyrene	0.40	0.070	0.5020	0	79.7	63.5	88.6			
Dibenz(a,h)anthracene	0.89	0.12	1.002	0	88.8	57	92.6			
Benzo(g,h,i)perylene	0.85	0.12	1.000	0	85.0	55.4	95.9			
ideno(1,2,3-cd)pyrene	1.6	0.080	2.004	0	82.3	52.7	88.6			
Surr: Benzo(e)pyrene	17		20.00		85.9	46.4	106			

Sample ID **LCS-6925**	SampType: **LCS**	TestCode: **EPA Method 8310: PAHs**
Client ID: **LCSW**	Batch ID: **6925**	RunNo: **9888**
Prep Date: **4/11/2013**	Analysis Date: **4/16/2013**	SeqNo: **281795** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Benzo(e)pyrene	17		20.00		86.9	46.4	106			

Sample ID **LCSD-6925**	SampType: **LCSD**	TestCode: **EPA Method 8310: PAHs**
Client ID: **LCSS02**	Batch ID: **6925**	RunNo: **9888**
Prep Date: **4/11/2013**	Analysis Date: **4/16/2013**	SeqNo: **281801** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Benzo(e)pyrene	16		20.00		81.1	46.4	106	0		

Sample ID **MB-6925**	SampType: **MBLK**	TestCode: **EPA Method 8310: PAHs**
Client ID: **PBW**	Batch ID: **6925**	RunNo: **9888**
Prep Date: **4/11/2013**	Analysis Date: **4/18/2013**	SeqNo: **282324** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Benzo(e)pyrene	15		20.00		77.2	46.4	106			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304170**

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID **MB-6969**	SampType: **MBLK**	TestCode: **Total Phenolics by SW-846 9067**
Client ID: **PBW**	Batch ID: **6969**	RunNo: **9846**
Prep Date: **4/15/2013**	Analysis Date: **4/15/2013**	SeqNo: **280297** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	ND	2.5								

Sample ID **LCS-6969**	SampType: **LCS**	TestCode: **Total Phenolics by SW-846 9067**
Client ID: **LCSW**	Batch ID: **6969**	RunNo: **9846**
Prep Date: **4/15/2013**	Analysis Date: **4/15/2013**	SeqNo: **280298** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	19	2.5	20.00	0	93.2	81.1	120			

Sample ID **LCSD-6969**	SampType: **LCSD**	TestCode: **Total Phenolics by SW-846 9067**
Client ID: **LCSS02**	Batch ID: **6969**	RunNo: **9846**
Prep Date: **4/15/2013**	Analysis Date: **4/15/2013**	SeqNo: **280319** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	20	2.5	20.00	0	99.0	81.1	120	5.97	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

Hall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID	**1304186-001d dup**	SampType: **dup**		TestCode: **SM4500-H+B: pH**					
Client ID:	**BatchQC**	Batch ID: **R9675**		RunNo: **9675**					
Prep Date:		Analysis Date: **4/4/2013**		SeqNo: **275772**		Units: **pH units**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.35	1.68								H

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

WO#: **1304170**

Hall Environmental Analysis Laboratory, Inc.

25-Apr-13

Client: HRL Compliance Solutions

Project: Enterprise WEP III Water Sampling

Sample ID	MB-6900	SampType:	MBLK		TestCode:	SM2540C MOD: Total Dissolved Solids				
Client ID:	PBW	Batch ID:	6900		RunNo:	9797				
Prep Date:	4/10/2013	Analysis Date:	4/11/2013		SeqNo:	279004	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-6900	SampType:	LCS		TestCode:	SM2540C MOD: Total Dissolved Solids				
Client ID:	LCSW	Batch ID:	6900		RunNo:	9797				
Prep Date:	4/10/2013	Analysis Date:	4/11/2013		SeqNo:	279005	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Sample ID	1304186-002DMS	SampType:	MS		TestCode:	SM2540C MOD: Total Dissolved Solids				
Client ID:	BatchQC	Batch ID:	6900		RunNo:	9797				
Prep Date:	4/10/2013	Analysis Date:	4/11/2013		SeqNo:	279021	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1860	20.0	1000	836.0	102	80	120			

Sample ID	1304186-002DMSD	SampType:	MSD		TestCode:	SM2540C MOD: Total Dissolved Solids				
Client ID:	BatchQC	Batch ID:	6900		RunNo:	9797				
Prep Date:	4/10/2013	Analysis Date:	4/11/2013		SeqNo:	279022	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1860	20.0	1000	836.0	103	80	120	0.269	5	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: HRL COMPLIANCE SOL Work Order Number: 1304170 RcptNo: 1

Received by/date: SE 04/03/13

Logged By: **Michelle Garcia** 4/3/2013 5:30:00 PM

Completed By: **Michelle Garcia** 4/4/2013 8:54:31 AM

Reviewed By: 04/04/13

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Client		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 1 (<2 or >12 unless noted)

Adjusted? NJ

Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Not Present			

Chain-of-Custody Record

Client: HRL Compliance Solutions Inc

Mailing Address: 2385 F½ Rd.
Grand Junction, CO 81635

Phone #: 970-243-2371

email or Fax#: tancell@hrlcompcon

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☑ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name:
Enterprise WCP III Wada Sampling

Project #:
13-110.2

Project Manager:
Kay Lambert

Sampler: Theresa Ancell

On Ice: [illegible]

Sample Temperature: [illegible]

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. 1304155	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	WQCC List				Air Bubbles (Y or N)
4/3/13	1430	Aq	Horn Pond	Various	see container	-001												X				
			TRIP BLANK	VOAX3	HCl/Na_2SO_3	-002					X					X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
4/3/13	1730	Theresa Ancell	Sarah Edwards	4/5/13	17:30
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.