

2011 Annual Inspection Report for the Weldon Spring, Missouri, Site

January 2012



U.S. DEPARTMENT OF
ENERGY

Legacy
Management

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2011 Annual Inspection Report for the Weldon Spring, Missouri, Site

Summary

The Weldon Spring Site, located in St. Charles, Missouri, was inspected October 25 through 27, 2011. The inspection was conducted in accordance with the *Long-Term Surveillance and Maintenance Plan for the Weldon Spring, Missouri, Site* (LTS&M Plan) (December 2008), and associated inspection checklist. Representatives from the U.S. Department of Energy (DOE), the DOE contractor S.M. Stoller Corporation (Stoller), U.S. Environmental Protection Agency (EPA), and Missouri Department of Natural Resources (MDNR) participated in the inspection. Representatives from the Missouri Department of Transportation (MoDOT), Missouri Department of Conservation (MDC) and St. Charles County Commission on Environmental Quality participated in portions of the inspection. The Weldon Spring Site is a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site.

The main areas inspected at the site were the Quarry, the disposal cell, Leachate Collection and Removal System (LCRS), monitoring wells, assorted general features, and areas where institutional controls have been established.

Institutional control areas were inspected to ensure that restrictions such as excavating soil, groundwater withdrawal, residential use, etc., were not being violated. Each area was inspected and no indication of violations of the restrictions was observed.

The disposal cell was inspected by walking ten transects over the cell and around the cell perimeter. Hand-held global positioning system (GPS) equipment was used to navigate the ten transects. Five areas of the cell which had been marked and located by GPS survey equipment during the 2003 annual inspection were located and observed for any signs of rock degradation. A new rock degradation area had been marked during the summer in response to a MDNR request during the 2010 annual inspection and this area was photographed to use as a baseline. The LCRS was also inspected and observed to be in good condition. Sixty-three of the 107 groundwater-monitoring wells were inspected and were in good condition. Other site features including the prairie, site markers, and roads also were inspected.

1.0 Introduction

The Weldon Spring Site is located in southern St. Charles County, Missouri, approximately 30 miles west of St. Louis, as shown in Figure 1. The site consists of two main areas, the Weldon Spring Chemical Plant and the Weldon Spring Quarry, both located along Missouri State Route 94.

In 1941, the U.S. Government acquired 17,232 acres of rural land in St. Charles County to establish the Weldon Spring Ordnance Works. From 1941 to 1945, the U.S. Department of the Army (Army) manufactured trinitrotoluene (TNT) and dinitrotoluene (DNT) at the site. These operations resulted in nitroaromatic contamination of soil at the plant site, sediments in drainages originating at the site (Frog Pond Outlet and the Southeast Drainage), groundwater near the site, and some off-site springs.

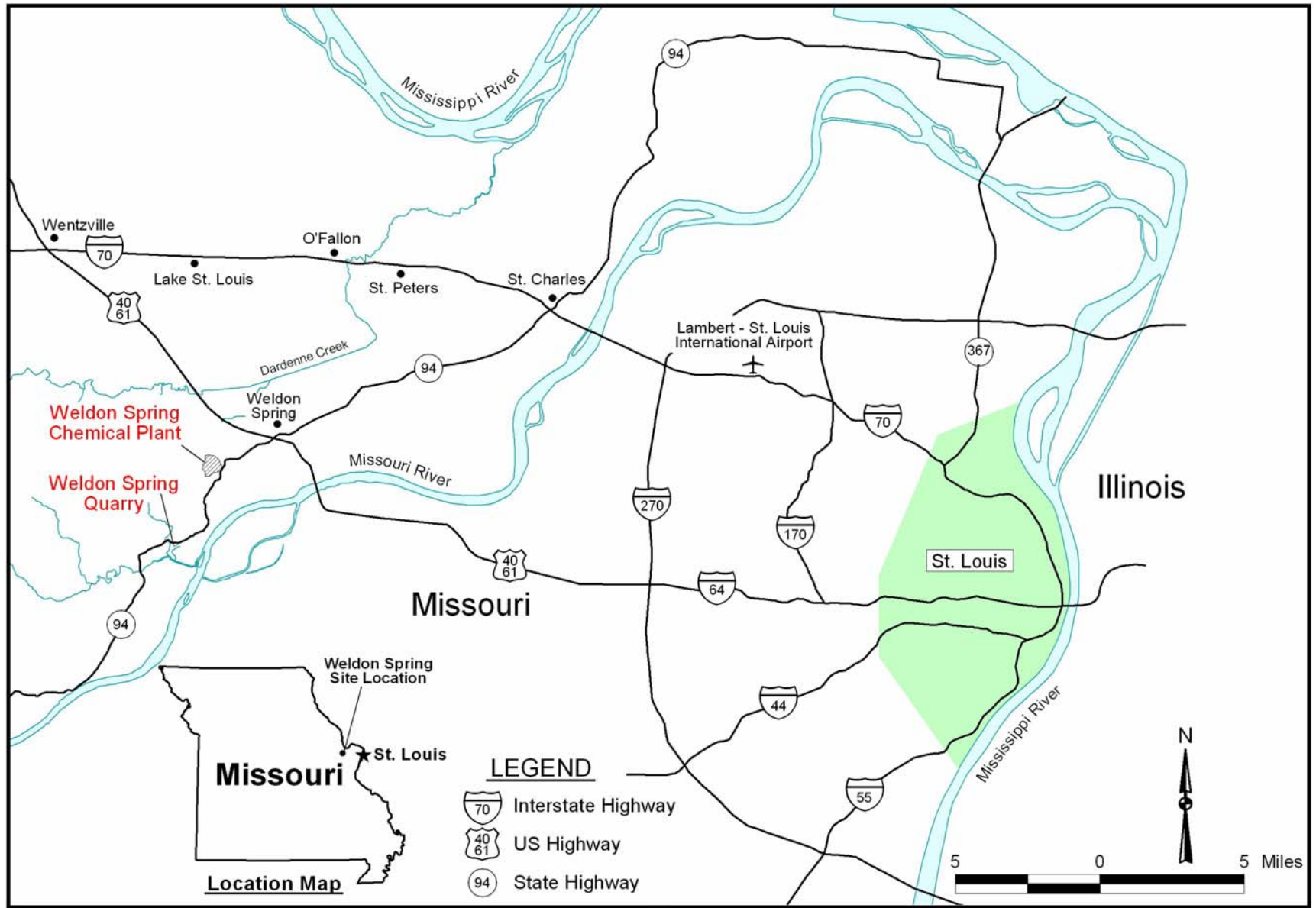


Figure 1. Location of the Weldon Spring, Missouri, Site

The former ordnance works property was transferred to the U.S. Atomic Energy Commission (AEC) in 1956 for construction of the Weldon Spring Uranium Feed Materials Plant, now referred to as the Weldon Spring Chemical Plant. The plant converted processed uranium ore concentrates to pure uranium trioxide, intermediate compounds, and uranium metal. A small amount of thorium also was processed. Wastes generated during these operations were stored in four raffinate pits located on the plant property. Uranium processing operations resulted in radiological contamination of the same locations previously contaminated by former Army operations.

The Weldon Spring Quarry was mined for limestone aggregate used in construction of the ordnance works. The Army also used the Quarry for burning wastes from explosives manufacturing and disposal of TNT-contaminated rubble during the operation of the ordnance works. These activities resulted in nitroaromatic contamination of the soil and in rock fractures at the Quarry, in groundwater under the Quarry, and between the Quarry and Femme Osage Slough.

In 1960, the Army transferred the Quarry to the AEC, who used it from 1963 to 1969 as a disposal area for uranium and thorium residues from the Chemical Plant (both drummed and uncontained), contaminated building rubble, process equipment, and soils from demolition of a uranium processing facility in St. Louis. Radiological contamination occurred in the same locations as the nitroaromatic contamination.

Uranium processing operations ceased in 1966 and the Quarry and Chemical Plant areas were placed on the National Priorities List in 1987 and 1989, respectively. Remediation of the Weldon Spring site was administratively divided into four Operable Units (OUs): Quarry Bulk Waste OU, Chemical Plant OU, Quarry Residuals OU, and Groundwater OU. Records of Decision for each OU have been approved. The Southeast Drainage was remediated as an interim response action through a separate engineering evaluation/cost analysis process.

The remedy for the Quarry Bulk Waste OU consisted of excavating and removing bulk waste from the Quarry and transporting it along a dedicated haul road to an engineered temporary storage area located at the Chemical Plant with final disposition in an engineered on-site disposal cell. The Chemical Plant OU remedy included removal of contaminated soils, sludge, and sediment, treatment of wastes as appropriate by chemical stabilization/solidification and disposal of the Chemical Plant and Quarry bulk wastes in an engineered on-site disposal facility. The Quarry Residuals OU addressed residual soil contamination in the Quarry proper, surface water and sediments in the Femme Osage Slough, and contaminated groundwater. The Groundwater OU addresses the groundwater at the Chemical Plant area. The Southeast Drainage was remediated by removal of selected sediment in accessible areas of the drainage.

The final site conditions from the above remedial actions include the following:

- An on-site disposal cell that contains 1.48 million cubic yards of contaminated material.
- Residual groundwater contamination remains in the shallow aquifer beneath both the Chemical Plant and Quarry.
- Several springs near the Chemical Plant area discharge residually contaminated groundwater.
- Residual soil and sediment contamination remain in the Southeast Drainage.

- Contamination remains at a culvert along Missouri State Route 94.
- Residual soil contamination remains at inaccessible locations within the Quarry.

The purposes of the annual inspection were to confirm the integrity of the visible features (such as disposal cell, LCRS, and monitoring wells) at the site, document the site condition subsequent to remediation and restoration, identify changes in conditions that may affect site integrity, determine if institutional controls are adequately implemented, and determine the need, if any, for maintenance or additional inspections and monitoring.

At the time of the inspection nine personnel from the Stoller office in Grand Junction, Colorado, were employed full-time at the site. Some of these employees also support other Legacy Management sites around the nation. Also employed at the site are part-time contractor and subcontractor employees.

This report presents the results of the DOE annual inspection of the Weldon Spring Site. The following personnel from Stoller were the lead inspectors during the inspection:

Terri Uhlmeyer, Weldon Spring Site
Randy Thompson, Weldon Spring Site

The following support personnel from Stoller participated in the inspection:

Tom Welton, Weldon Spring Site
Tim Zirbes, Weldon Spring Site
Becky Cato, Weldon Spring Site

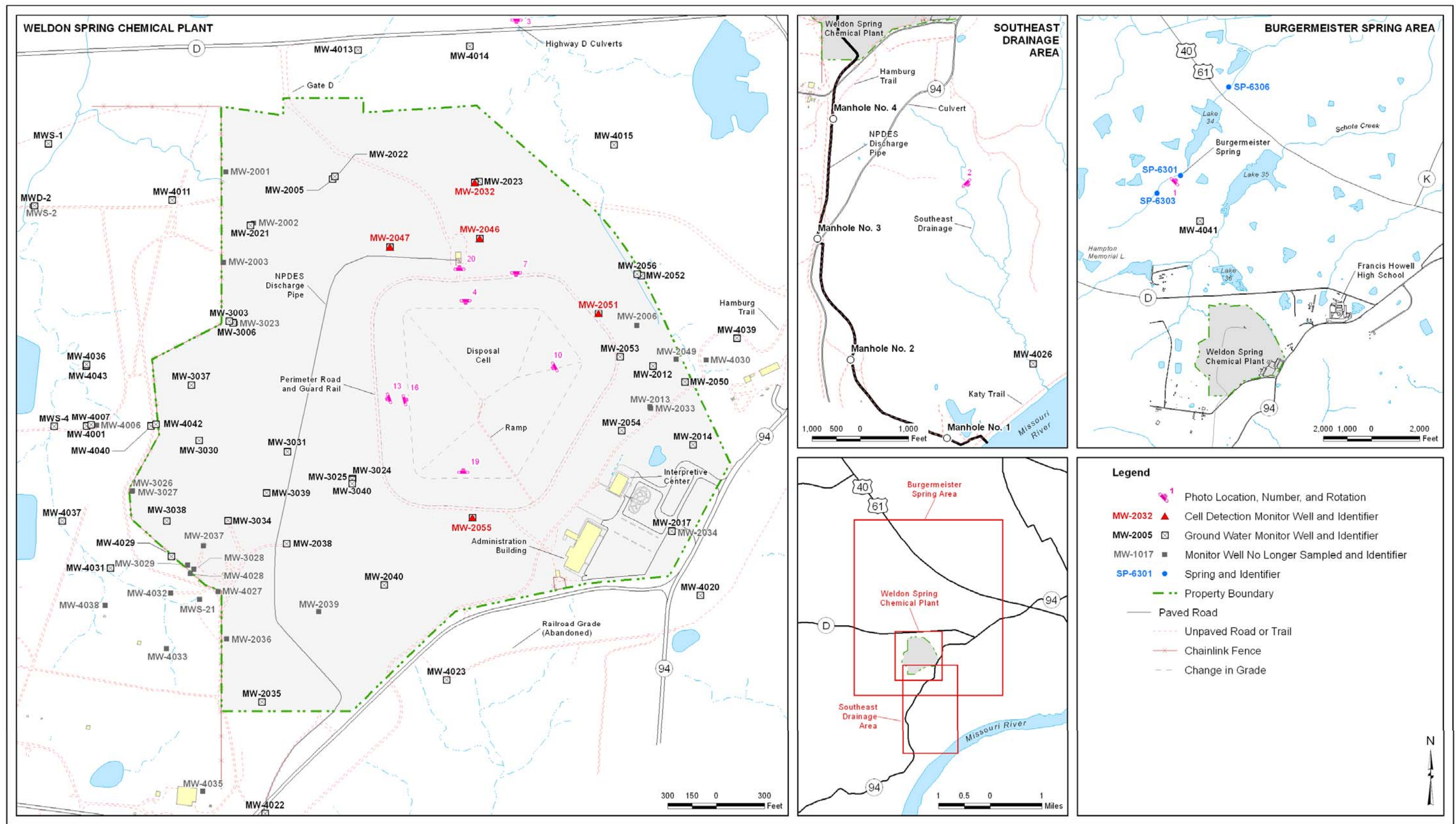
The following personnel observed the inspection and provided oversight:

Vijendra Kothari – DOE
Ken Starr – DOE
Hoai Tran – EPA, Region VII
Patrick Anderson – MDNR
Andrew Rackers – MDNR
Kevin Wideman – MoDOT
John Vogel – MDC
Tom Nelson – St. Charles County Commission on Environmental Quality

The inspection was conducted in accordance with the LTS&M Plan, dated December 2008.

2.0 Inspection Results

Prior to the inspection, the site inspection agenda (Appendix A) was reviewed with the inspection participants. The inspection schedule was revised from the agenda, as the forecast was calling for rain on the second day of the inspection (October 26), therefore the disposal cell inspection was actually conducted on the afternoon of the first day, due to safety concerns. A safety briefing was also held prior to the inspection and the corrective action report from the 2010 annual inspection was reviewed (Appendix B). The following is a summary of the inspection results. The inspection base map, which includes the locations of the photographs, is included as Figures 2 and 3. The checklist (from Appendix H of the LTS&M Plan) is included in this report as Appendix C.



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Figure 2. 2011 Inspection Map for the Chemical Plant Area of the Weldon Spring, Missouri, Site

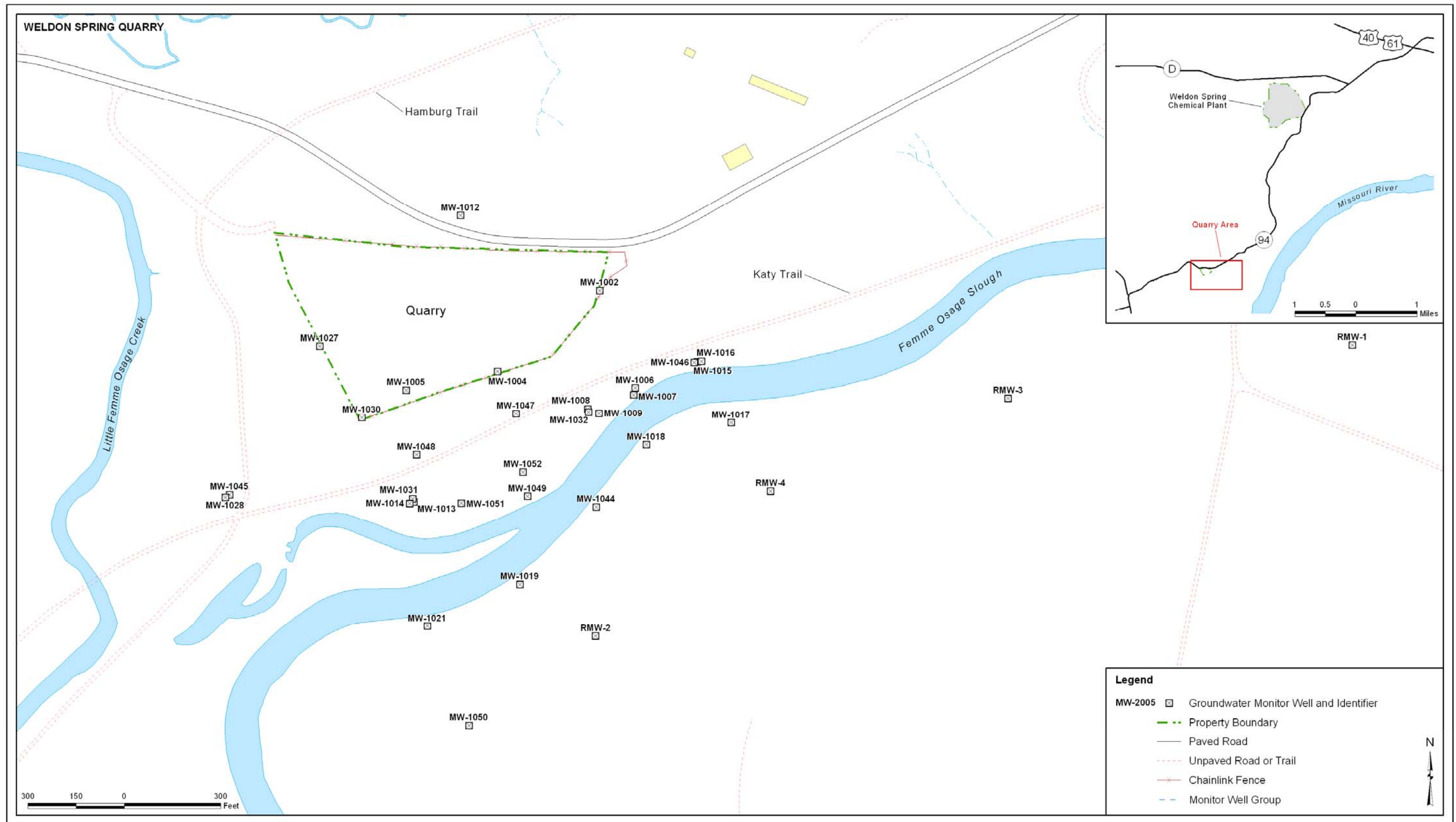


Figure 3. 2011 Inspection Map for the Quarry Area of the Weldon Spring, Missouri, Site

2.1 Institutional Controls (ICs) Inspection

Section 2.3.4 of the LTS&M Plan states “DOE will conduct a formal annual inspection of the physical locations addressed by ICs. DOE also will evaluate whether the ICs remain effective in protecting human health and the environment and, in coordination with EPA and MDNR, will take appropriate action if evidence indicates the controls are not effective.”

The Weldon Spring Site has made progress on the attainment of the instruments for institutional controls, although one easement (with the MoDOT) is still pending and not yet formally in place. The easement with MDC was signed during the summer of 2011 and includes groundwater and land use restrictions and allows access for environmental monitoring purposes. The revised Memorandum of Understanding with the Army was signed in 2009 to specify the groundwater use restrictions contained in the Explanation of Significant Difference (ESD) and to further enhance DOE’s access for the purpose of environmental monitoring and for surveillance of the restricted area. An easement with MDNR-Parks was signed in 2009 to implement the groundwater use restriction on that property. The institutional controls that were in place prior to 2009 include a Notation of Land Ownership on the Chemical Plant and Quarry Property which is filed with St. Charles County; the interpretive center; a license granting DOE permission to abandon or install and operate groundwater wells and perform sampling; and a license granting DOE continued operation and maintenance of the effluent discharge pipeline that runs from DOE property to the Missouri River and through the Katy Trail. The “Special Use Area” under the Missouri Well Code was finalized in the Missouri regulations (10 CSR 23-3.100(8)) in August 2007. This is a special regulation that designated the DOE and Army’s groundwater restricted areas as special areas that require additional drilling protocols and construction specifications to be followed for installation of wells within the area.

During the inspection, the institutional control areas were inspected in accordance with the current information in the LTS&M Plan. Figures 4 and 5 are the institutional control location maps from the LTS&M Plan.

The institutional control areas are listed below as they are stated in the inspection checklist.

2.1.1 Land and Shallow Groundwater Use Within the Site Proper Boundary (Outside Disposal Cell Buffer Zone)

Inspect for indications of excavations into soil or bedrock and groundwater withdrawal or use in restricted areas. If any party has been granted use of portions of the Chemical Plant area, inspect to ensure that land use is in compliance with the terms of the restrictions within the notation.

Inspection Results: This area was inspected and no indications of excavations into soil or bedrock, groundwater withdrawal, or use were observed. Lindenwood University had been granted use of the Administration Building, but as of April 2011 terminated the use agreement and no longer occupies the building. The DOE is evaluating options in regards to the Administration Building. Current land use remains consistent with the planned institutional controls.

2.1.2 Land and Shallow Groundwater Use at DOE Site Proper Disposal Cell and Buffer Zone

Inspect for indications of excavations into soils and bedrock, and for residential use of the shallow groundwater within the buffer zone. Inspect to ensure that the land use continues to be in compliance with the terms of the restrictions within the notation.

Inspection Results: This area was inspected and no indications of excavations into soils or bedrock, and no residential uses of the shallow groundwater within the buffer zone were observed. Survey monuments WS23 and WS27 for the disposal cell buffer zone were inspected. Current land use remains consistent with planned institutional controls.

2.1.3 Groundwater Use in Areas Surrounding the Chemical Plant

Groundwater use will be restricted in this area. Inspect affected areas for evidence of groundwater or spring water use (Burgermeister Spring and Spring 6303). Inspect to ensure that land use continues to be in compliance with the terms of the license, easement, or permit and the restrictions contained therein.

Inspection Results: The surrounding area where groundwater use is restricted was inspected. This includes property owned by the MDC and the Army. No evidence of groundwater use was observed and current land use remains consistent with planned institutional controls on both properties. Burgermeister Spring 6301 (Photo 1) and Spring 6303 on MDC property were inspected and there were no indications of spring water use. Spring 6303 was not flowing. On the Army property, survey monuments WS44, WS46, and WS52 were inspected. The Chemical Plant groundwater restriction area boundary monuments are shown in Figure 4. All the monitoring wells inspected were locked. The maintenance on the monitoring wells looked very good, with the majority of the wells being freshly painted. One well did not have a contact label. New contact labels with the site's revised contact telephone number had been placed on the wells. The Army has constructed a new reserve center outside its fence line and has plans to build a larger center inside the fence in the next few years. The boundary monument WS90 was located and it was noted that it had been repaired since the inspection last year.

2.1.4 Land and Shallow Groundwater Use on the DOE Quarry Property

Inspect for indications of excavations into soil or bedrock and groundwater withdrawal or use in restricted areas. If any party had been granted use of portions of the Quarry area, inspect to ensure that land use is in compliance with the terms of the restrictions within the notation.

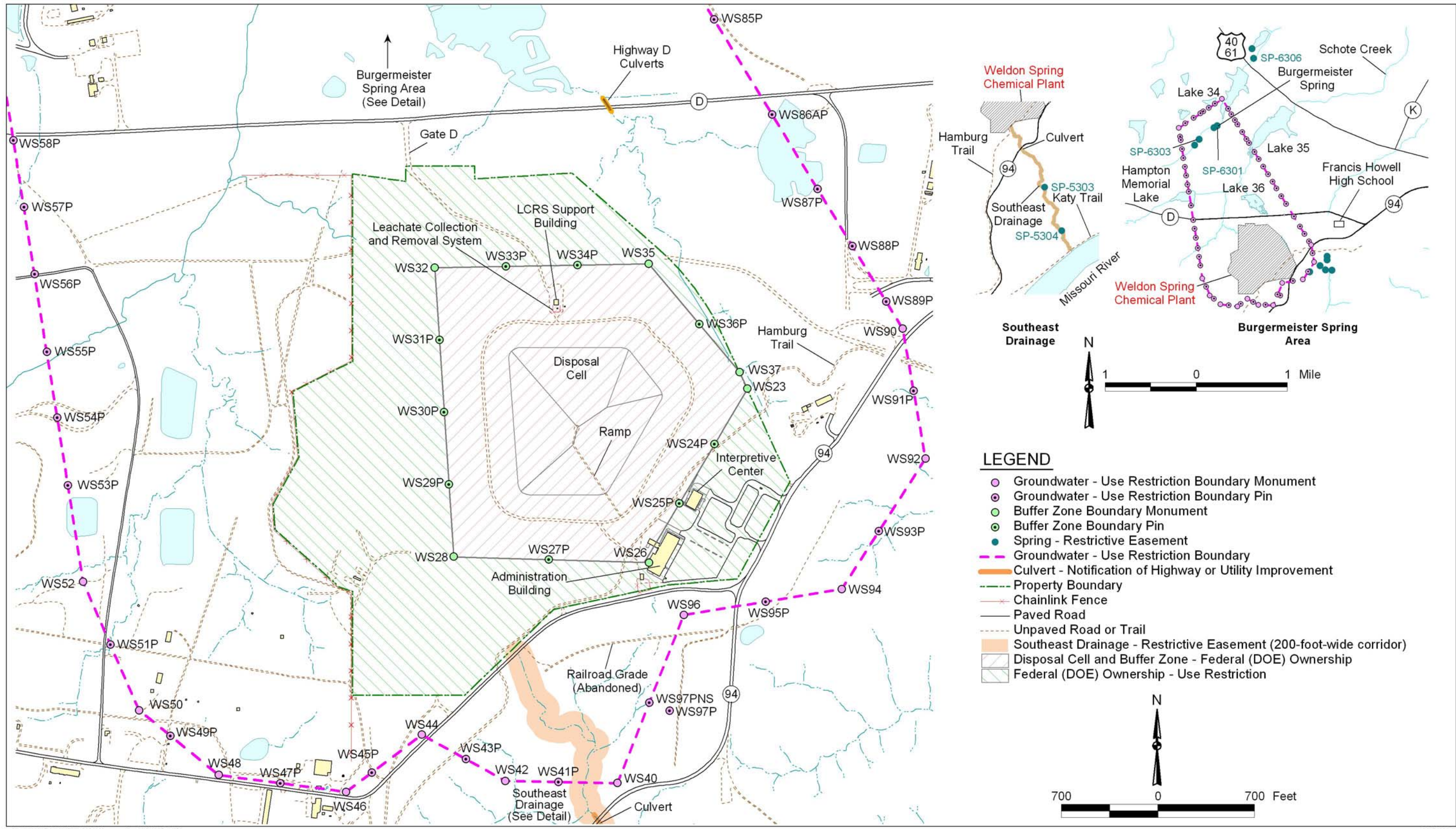


Figure 4. Institutional Controls Location Map for the Chemical Plant Area of the Weldon Spring, Missouri, Site

Inspection Results: The Quarry Property was inspected and no indications of excavation into soil or bedrock, and no groundwater withdrawal or use were observed. Also, no party has been granted use of portions of the Quarry area. Quarry backfill continues to provide positive drainage from the Quarry to the Little Femme Osage Creek and vegetative cover remains well established. Current land use remains consistent with planned institutional controls.

2.1.5 Groundwater (Quarry)

Groundwater use is restricted in certain areas. Inspect affected areas for evidence of groundwater withdrawal or use in the area of impact. Inspect to ensure that land use continues to be in compliance with the terms of the license and the restrictions contained therein.

Inspection Results: The groundwater-restricted area was inspected and no evidence of groundwater withdrawal or use in the area was observed. The Quarry groundwater restriction area boundary survey monuments are shown in Figure 5. The following survey monuments were located during the inspection: WQ7 and WQ11.

2.1.6 Land Use in Quarry Area Reduction Zone

A naturally occurring reduction zone exists in soil south of the Katy Trail and north of the Femme Osage Slough. Inspect for indications of excavations into soils and bedrock in the uranium reduction zone. Inspect to ensure that land use continues to be in compliance with the terms of the easement and the restrictions contained therein.

Inspection Results: The Quarry reduction zone area was inspected and no indications of excavation into soils or bedrock were observed. As required by the final LTS&M Plan, information signage and contact numbers were posted on monitoring wells at the Quarry Area reduction zone. The labels indicate no digging is allowed in this area and include contact numbers for DOE and MDC. Land use remains consistent with planned institutional controls.

2.1.7 Southeast Drainage

Check for indications of residential use or construction in the Southeast Drainage (200-foot-wide-corridor), or other activity that would indicate non-recreational use of the area. Check Springs 5303 and 5304 for residential, commercial, or agricultural use of spring water.

Inspection Results: The inspectors walked down the entire Southeast Drainage (Photo 2) and no indications of residential use, construction, or any other activity that would indicate non-recreational use of the area were observed. The springs also were inspected and no indications of residential, commercial, or agricultural use of the springs were observed. Both of the springs were observed to be flowing. A large tree is partially covering Spring 5304 and the spring is no longer a ponded area. Current land use remains consistent with planned institutional controls. Monitoring well MW-4026 needed painting. It was noted that erosion is occurring under the culvert which crossed under the Hamburg Trail. John Vogel of MDC noted this issue during the inspection as they are responsible for maintenance of the Hamburg Trail under a formal agreement between DOE and MDC.

2.1.8 Highway D Culvert

Check for signs of disturbance of the affected region where the Frog Pond outlet culverts pass beneath Highway D and in the utility rights-of-way in the affected area.

Inspection Results: The Highway D culverts were inspected (Photo 3). The culverts were replaced in August 2011. The culverts which had fixed contamination were removed by DOE in coordination with MoDOT during a road construction project. Confirmatory soil sampling conducted after culvert removals indicated that no radiological contamination existed over the stipulated action level of 1.5 times background activity levels. The culvert sections were relocated to a temporary staging area located on DOE property and will be disposed of at a low-level radiological disposal facility. These new culverts will no longer be inspected by DOE and will be removed from the LTS&M Plan and the checklist.

2.1.9 State Route 94 Culvert

Check for signs of disturbance of the affected region where the culvert passes beneath State Route 94 and in the utility rights-of-way in the affected area.

Inspection Results: The State Route 94 culvert was inspected and it was noted that Stoller representatives had cut off a portion of the culvert in August 2010 at the request of MoDOT. The culvert pieces that were removed are stored in a container in a Conex box behind the LCRS building. It was noted during the inspection that the Hwy 94 culvert inlet was filled with tree debris. The MoDOT representative, Kevin Wideman, took note of this issue and it is assumed will address the issue.

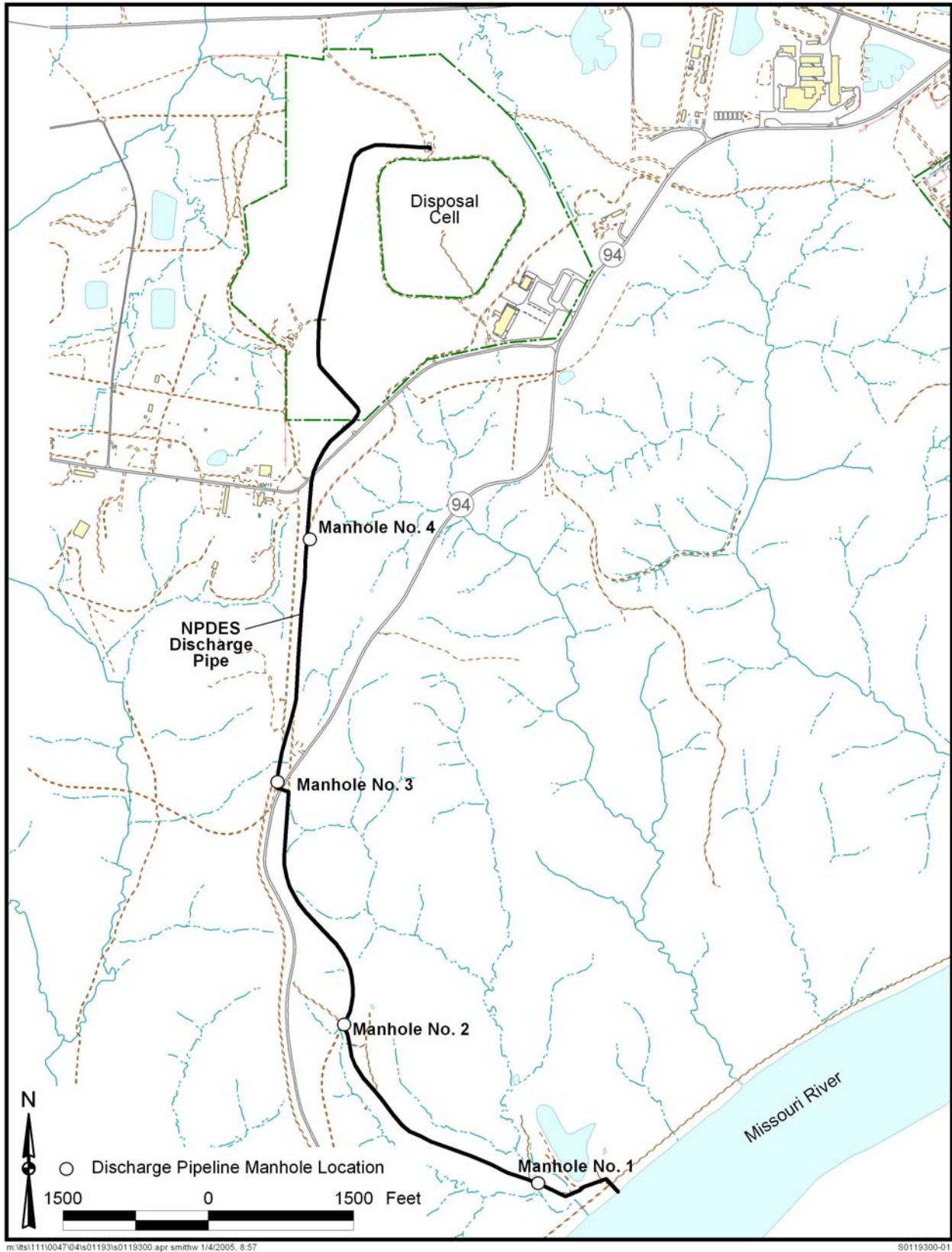
2.1.10 NPDES Discharge Pipeline from LCRS to Missouri River

Inspect the entire length of the NPDES discharge pipeline and outfall for any disturbance or maintenance needs.

Inspection Results: The area of the pipeline was inspected. GPS surveying equipment was used to find the locations of the manholes and cleanouts. A map of the pipeline, indicating the manhole locations, is shown in Figure 6. It was noted that there were no on-site disturbances of the pipeline and there were no apparent disturbances in the area of the pipeline or manholes in the off-site areas.

2.2 Disposal Cell

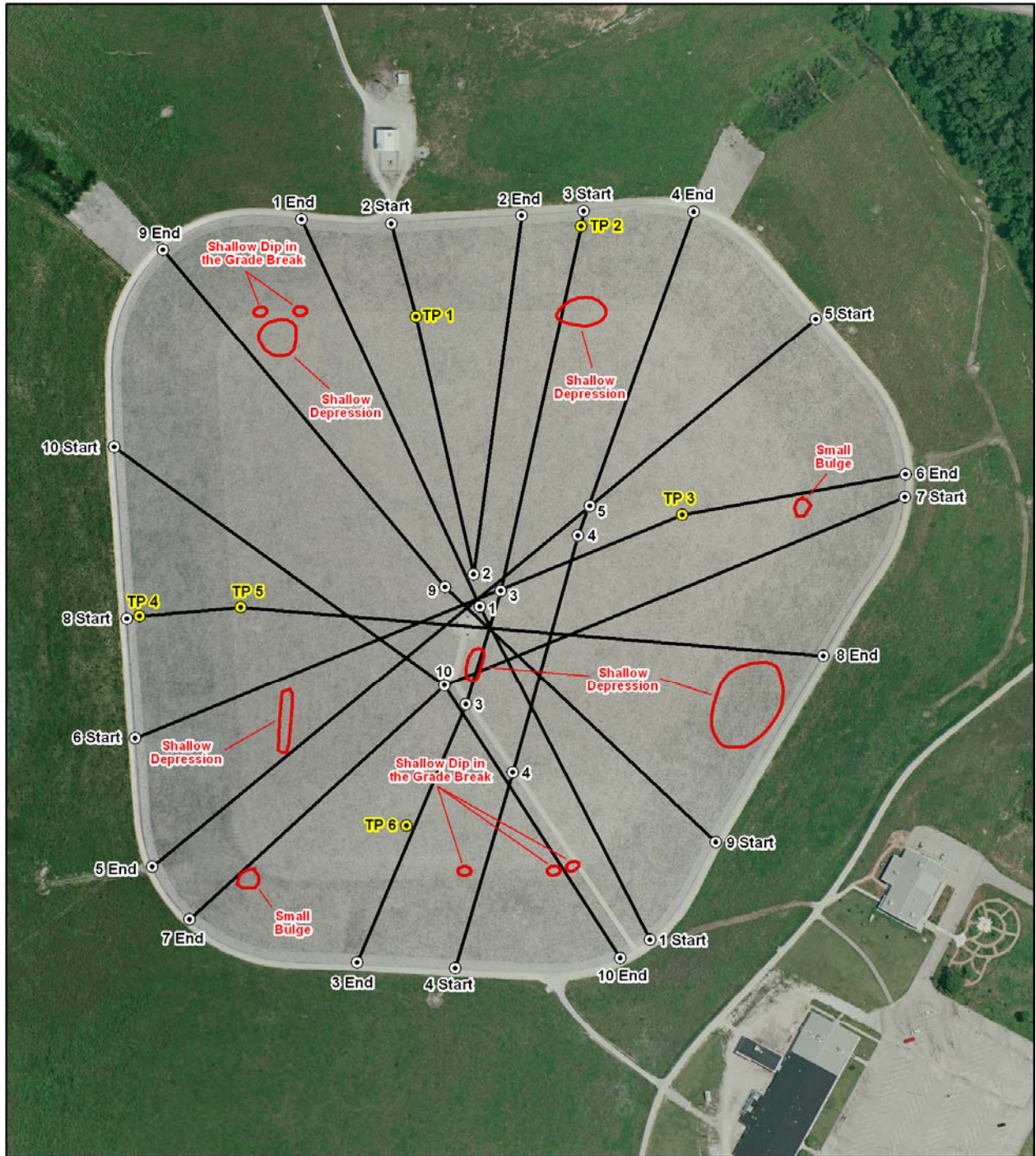
The disposal cell was inspected in accordance with the LTS&M Plan and the annual inspection checklist. The cell was divided into ten transects (Figure 7). The inspectors separated into two groups and walked five transects each. The inspectors looked for depressions, shifts of cell plane vertices, and other indications of settlement. Other items for inspection were vegetation, wet areas, apron drains, guardrail, and the stairs. A GPS unit was used during the 2003 inspection to map five areas chosen for rock degradation review (Figure 7). The inspectors took photographs of these delineated sections and compared them to photographs from the previous inspection of the same areas and observed no rock degradation. The test plot areas are shown from the original inspection in 2003, 2010, and this year for comparison purposes. Refer to Photos 4 through 18. It was noted during the 2010 inspection that some rocks had been removed from the Test Plot #5



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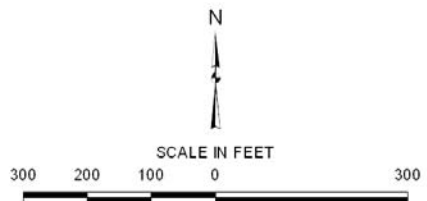
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Figure 6. NPDES Discharge Pipeline Between the LCRS Support Building at the Missouri River, Weldon Spring, Missouri, Site



LEGEND

- Test Plot (Rock Degradation)
- Transect Point
- Inspection Transect
- Depression or Grade Break



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Figure 7. Disposal Cell Inspection Transects and Rock Test Plot Locations at the Weldon Spring, Missouri, Site

during the 2010 inspection. A new test plot (Test Plot #6) had been marked during 2011 in response to a request from MDNR during the 2010 inspection. This new plot is located on the southern face of the disposal cell (Figure 7). A photograph was taken during the inspection as a baseline (Photo 19). It was noted during the inspection that the painted lines around the test plots had faded a great deal and it was recommended that the lines be repainted.

In accordance with the inspection criteria included in the checklist, the inspectors also evaluated the cell cover for wet areas or water drainage and observed that none were present. The toe and apron drains were inspected and found to be functioning as designed. An area of erosion was observed on the northeast corner of the northeast apron drain. The guardrail and stairs were in good condition. The handrail to the stairs is looking worn and it was recommended to look at maintenance needs for the handrail during the upcoming year. No vegetation was found on the disposal cell during the inspection. It has been observed the past three years that much of the rock is darker than in previous years and is assumed to be due to weathering. The darkened rock is not an issue that could compromise the disposal cell, just an observation of a changed condition.

2.3 Leachate Collection and Removal System (LCRS)

Operations of the LCRS were discussed with the inspection participants, the LCRS data and the SOARS system was presented, and the system was inspected (Photo 20). The fences and doors were locked and in good condition. The system was functioning as designed. As required by the LTS&M Plan, the leachate production rates, analytical results, and disposal information are provided in Appendix D. It was requested to provide the leachate reports to MDNR and EPA and to copy them on the monthly emails which include a summary of the leachate data each month.

The DOE continues to exercise its pretreatment contingency process equipment by pre-treating the leachate through a system of cartridge filters and ion exchange media that is selective for uranium. The leachate is sampled and continues to be well below the limit for uranium. The leachate will continue to be managed in this manner until the leachate is consistently below the 20 picoCuries per liter (pCi/L) level for uranium.

The ion exchange vessel has been labeled as “Potential Internal Contamination” based on the potential for uranium to accumulate in the resin.

2.4 Erosion

2.4.1 Chemical Plant Area

Areas of erosion in the prairie were identified during the 2006 inspection and it was recommended that the prairie be inspected more thoroughly, the erosion areas be located and mapped by GPS, and that erosion areas be repaired. Erosion channels within the entire prairie were mapped with GPS in August 2007 and again in June 2008, June 2009, May 2010 and May 2011 (Figure 8). The resulting information will be used to track the nature and extent of erosion in the future.

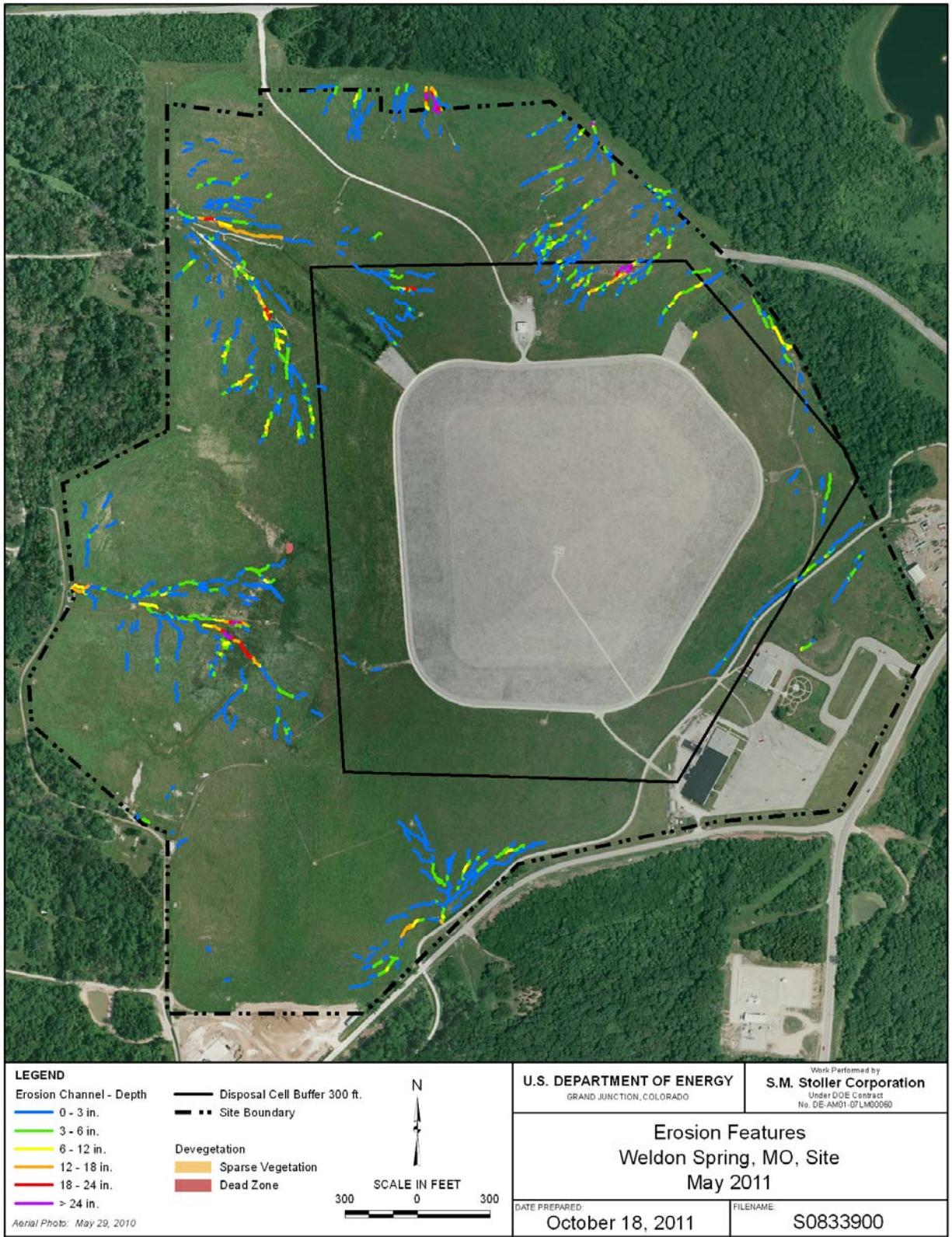


Figure 8. Erosion Channels within the Prairie

A field survey to evaluate erosion issues in the prairie was performed on August 2, 2007. The following individuals participated in the survey: Yvonne Deyo (Stoller, Weldon Spring Project Manager), Marilyn Kastens (Stoller soil reclamation specialist), Ben Moore (MDNR), Raymond Franson (MDNR), Frank Oberle (Pure Air Native Seed), and Jon Wingo (DJM Ecological Services). It was determined that existing erosion was temporary, typical of a newly reclaimed site in the process of stabilizing. It was recommended to monitor erosion channels and evaluate the other possible soil amendment and/or vegetation management strategies. Soil disturbance of any kind was not recommended at this time. The report that was prepared to document this trip was reviewed by the inspection participants during the 2007 inspection and included in the 2007 report.

In September 2009, a group of Legacy Management Support subject matter expert personnel met to discuss the current status of site erosion. It was determined that existing erosion continued to be fairly typical for a reclaimed site and no channels were currently a threat to the integrity of the disposal cell. The group agreed that continued monitoring of erosion would be prudent. The erosion will continue to be monitored and another mapping and evaluation is scheduled for the spring/early summer 2012.

It was noted that there was erosion on the northeast side of the apron drain located on the northeast side of the disposal cell that should be repaired.

2.4.2 Quarry Area

No erosion areas were noted during the inspection of the Quarry area.

2.5 General Site Conditions

General site conditions as listed in the checklist were inspected and are discussed below.

2.5.1 Roads

The roads consist of asphalt roads leading into the property and a gravel road that extends around the disposal cell and to Gate D. The roads were in good condition.

2.5.2 Vandalism

Although the site is publicly accessible, signs are clearly posted at the disposal cell that the viewing platform is open during daylight hours only. Public use of the site continues to rise. Because of on-going issues associated with this use (e.g., littering at various locations throughout the site including at the top of the disposal cell, increasing evidence of nighttime access, etc.), a private security firm was hired to provide seasonal patrol coverage of the site during the evening hours. These patrols, along with the upgraded safety-oriented security system have dramatically curtailed the degree of undesirable activities at the site. Signs were also posted at the disposal cell entrance and the top of the disposal cell that state that video surveillance is being conducted. This was a result of a recommendation made during the 2010 inspection.

The disposal cell monument plaques were observed to have been vandalized during 2010. The corners of the plaques have been bent down by the use of excessive force. It was noted during the 2011 inspection, that the plaques are continuing to be vandalized. The plaques are still functional and nothing further will be done at this time.

2.5.3 Personal Injury Risks

No personal injury risks were observed.

2.5.4 Site Markers (Four Information Plaques on Top of Cell, Historical Markers, and Other Information Markers)

The four information plaques on top of the cell were generally in good condition (See Section 2.5.2.). There was vandalism noted to the plaques in that the corners had been bent down from the use of excessive force as noted above. The historical markers were inspected and were in good condition.

The LTS&M Plan also states that signs are required to be posted on the LCRS fence to inform the public that trespassing is forbidden and that persons may call the DOE 24-hour security telephone number (970-248-6070 or 877-695-5322) for information. During the 2011 inspection, it was noted that these signs were posted on the LCRS fence and were in good condition.

2.6 Monitoring Wells

Monitoring wells in the Disposal Cell Monitoring Well Network, Chemical Plant Monitoring Well Network, and Quarry Monitoring Well Network were inspected. The inspection checklist required all the disposal cell wells to be inspected, and greater than 10 percent of the Chemical Plant and Quarry wells to be inspected. The checklist required the wells to be inspected to ensure they are properly secured and locked, in good condition, and to check if they need maintenance and have the proper ID number on the well. All of the wells that were inspected met the majority of these requirements. The maintenance on the wells looked good, with many wells having been freshly painted. One well (MW-4037) did not have a contact label. New contact labels which have the new contact telephone number had been applied to the wells. The well in the Southeast drainage (MW-4026) needed repainting.

Sixteen wells had been abandoned in accordance with the applicable regulations during late 2010. These wells are listed below:

MW-2024, 2045, 3032, 3035, 3036, 4002, 4024, 4034, HIW1, LIW1, ICO1, ICO2, ICO3, ICO4, ICO5, ICO6.

Well MW-4035 was on the list of wells to be abandoned by DOE, but in accordance with the MOU between the DOE and the Army, each agency agreed to notify the other prior to scheduling plugging of a well in order that the agency that does not own the well has the opportunity to take ownership responsibility should it decide that a particular well could be beneficial to its monitoring program. Upon notification of the list of wells DOE planned to abandon, the Army determined they wanted to take ownership of MW-4035. This well is still in the process of being transferred.

2.6.1 Disposal Cell Monitoring Well Network

Each well in the disposal cell network was inspected and is listed below:

MW-2032, 2046, 2047, 2051, 2055.

2.6.2 Chemical Plant Area Monitoring Well Network

The inspection checklist requires at least 10 percent of the wells be inspected from the Chemical Plant monitoring well network. The monitoring well network consists of 68 wells owned by DOE and 4 wells owned by the Army. This number does not include the 5 disposal cell wells, although some of those wells are monitored for the groundwater remedy. Thirty-eight wells were inspected (56 percent). Only fifty wells are monitored for the groundwater remedy of monitored natural attenuation. The remaining wells are monitored quarterly for static water levels only. The wells that were inspected are listed below:

MW-2005, 2006, 2012, 2013, 2017, 2022, 2023, 2033, 2034, 2049, 2050, 2052, 2053, 2054, 2056, 3024, 3025, 3029, 3031, 3040, 4001, 4006, 4007, 4011, 4022, 4026, 4027, 4028, 4029, 4030, 4031, 4036, 4037, 4039, 4040, 4041, 4042, 4043.

2.6.3 Quarry Monitoring Well Network

The inspection checklist requires greater than 10 percent of the wells in the Quarry monitoring well network be inspected. The monitoring well network consists of 34 wells. Twenty wells were inspected (59 percent). The wells that were inspected are listed below:

MW-1002, 1004, 1005, 1006, 1007, 1008, 1009, 1013, 1014, 1027, 1028, 1030, 1031, 1032, 1045, 1047, 1048, 1049, 1051, 1052.

2.7 On-site Document and Record Verification

The following on-site documents and records were verified:

- Surveillance and Maintenance Plan: (*Long-Term Surveillance and Maintenance Plan for the Weldon Spring, Missouri, Site*, December 2008)
- Maintenance log (Plan of the Day/Week forms)
- NPDES permit(s): #MO-0107701, revised
- Metropolitan St. Louis Sewer District (MSD) agreement and records
- Groundwater monitoring records
- Leachate records
- Interpretive Center sign-in logs
- Telecons and interview records

2.8 Contacts

Several stakeholders were notified prior to the inspection in accordance with the checklist. The purpose of this notification is to keep contact with the stakeholders and determine if there are any issues or concerns. These included:

- St. Charles County Sheriff
- Cottleville Fire District
- Francis Howell High School
- Simplex-Grinnel Alarm System
- St. Charles County

The institutional control contacts also were notified in regard to the inspection and to maintain annual contact with the representatives relevant to institutional control issues. This annual contact is used to verify cognizance of the institutional controls and to reiterate the requirements and/or restrictions with each representative. The representatives contacted are listed below.

- John Vogel – Missouri Department of Conservation
- Joel Porath – Missouri Department of Conservation
- Doyle Brown – Missouri Department of Conservation
- Mary Bryan – Missouri Department of Natural Resources – Parks
- Quinn Kellner – Missouri Department of Natural Resources – Parks
- Marsha Miller – Army
- Tom Blair – Missouri Department of Transportation
- Tom Evers - Missouri Department of Transportation
- Kevin Wideman - Missouri Department of Transportation

The St. Charles Planning and Zoning Department also was contacted and they verified that no planning and zoning activities were currently taking place within one-quarter mile of the Chemical Plant and Quarry Property. The Notation of Land Ownership was verified to be filed and present at the St. Charles Recorder of Deeds office by checking the county website at www.sccmo.org.

The Stoller Project Manager and Environmental Data Manager, Randy Thompson, (who at this time is the same person) was interviewed also as required by the inspection checklist. He was interviewed regarding the status of the project and to discuss any issues as well as the status of the monitoring data.

All conversations and interviews were recorded on an Interview Record form adapted from the EPA *Comprehensive Five-Year Review Guidance*. The forms for each of these contacts and interviews are attached as Appendix E.

2.9 Operation and Maintenance (O&M) Costs

The fiscal year (FY) 2010 long-term surveillance and maintenance costs for the Weldon Spring Site from October 1, 2010 to September 30, 2011 were budgeted at \$2,090,902.49. The actual costs were \$1,732,739.75. The costs were higher than previous years, due to the culvert removal project and the actual cost was less than estimated because the cost of transportation and disposal of the culvert was included in the estimate, but this activity did not take place during FY11.

2.10 Environmental Monitoring Data

The environmental data from the Weldon Spring Site are available on the following DOE website: www.lm.doe.gov/land/sites/mo/weldon/weldon.htm under the Geospatial Environmental Mapping System (GEMS) link. A quarterly internal report is issued which includes validated environmental data results for each quarter. The report includes site summary, data trending, chain-of-custody information, adequacy of quality control sample results, data assessment summaries, information on data that are outside the range of historical concentrations, and data that merit explanation or follow-up action, sampling and analytical schedules, trip reports, and sampling location maps.

Results of all environmental monitoring data are summarized and included in the Annual Site Environmental Report. The report includes data trending information and also reports on other aspects of the project including status and regulatory information. The Annual Site Environmental Report for 2011 will be available in August 2012. The 2010 Annual Site Environmental Report is available on the Weldon Spring Website at www.lm.doe.gov/land/sites/mo/weldon/weldon.htm under the “Site Documents and Links” section.

2.11 Prairie Maintenance

Section 2.6 of the Final LTS&M Plan states that routine maintenance of the prairie completed during the previous 12 months will be summarized in the annual inspection report. This summary is as follows:

Several prairie maintenance activities were performed throughout the previous 12 months.

Due to unfavorable weather there was no controlled burn performed in 2011.

In July, spot-spraying individual small trees and *Sericea lespedeza* and *Robinia pseudoacacia* plants with herbicide was performed as part of on-going efforts to reduce numbers and control encroachment of invasive weed and tree species throughout the prairie area. An increase in the numbers of plants was observed during this season’s eradication efforts.

Garden maintenance of the areas surrounding the interpretive center continued in 2011. This consisted of manual weeding and occasional irrigation and was performed throughout the growing season. Corn gluten, a cereal industry by-product with pre-emergent herbicide qualities was broadcast on garden beds in the spring season to assist in weed control efforts and act as an organic fertilizer. Mulching of the beds was also performed to reduce the weeds and control moisture. Dried seed heads from forbs were harvested and utilized for hand overseeding on the prairie area of the site in September and October 2011. Locations in the prairie with erosion and less plant establishment were targeted. Volunteers continued to perform garden maintenance activities throughout this period.

3.0 Findings and Recommendations

1. Recommendation: Wells that required some type of maintenance.

- Need new contact label: MW-4027
- Need painted: MW-4026

Action: Apply the required maintenance to these wells.

Target Date: June 2012

2. Recommendation: Repaint Rock Degradation Test Plots

Action: Repaint Rock Degradation Test Plots

Target Date: July 2012

3. Recommendation: Repair erosion area on northeast side of the apron drain located on the northeast side of the disposal cell.

Action: Repair erosion area on northeast side of the apron drain located on the northeast side of the disposal cell.

Target Date: July 2012

4. Recommendation: Continue to monitor and evaluate erosion on the Chemical Plant Site.

Action: Continue to monitor and evaluate erosion on the Chemical Plant Site.

Target Date: Ongoing.

5. Recommendation: Remove the reference to inspection of survey monuments from the LTS&M Plan and future inspections. With use of GPS, the survey monuments are not critical to the project and there is no need to inspect them.

Action: Remove the reference to inspection of survey monuments from the LTS&M Plan and future inspections.

Target Date: September 2012.

4.0 Photographs



Photo 1. Burgermeister Spring.



Photo 2. Southeast Drainage.



Photo 3. Hwy. D culverts outlet.



Photo 4. 2011-Cell cover test plot TP1; north edge of north facet.



Photo 5. 2003-TP1; north facet of the disposal cell cover.



Photo 6. 2010-Cell cover test plot TP1; north edge of north facet.



Photo 7. 2011-Cell cover test plot TP2; bottom of north side slope.



Photo 8. 2003-TP2; foot of north side slope of disposal cell.



Photo 9. 2010-Cell cover test plot TP2; bottom of north side slope.



Photo 10. 2011-Cell cover test plot TP3; northeast ridgeline.



Photo 11. 2003-Cell cover test plot TP3; northeast ridgeline.



Photo 12. 2010-Cell cover test plot TP3; northeast ridgeline.



Photo 13. 2011-Cell cover test plot TP4; located on upper west side.



Photo 14. 2003-Cell cover test plot TP4; located on upper west side.



Photo 15. 2010-Cell cover test plot TP4; located on upper west side.



Photo 16. 2011-Cell cover test plot TP5; located on lower west side.



Photo 17. 2003-Cell cover test plot TP5; located on lower west side.



Photo 18. 2010-Cell cover test plot TP5; located on lower west side.



Photo 19. Cell cover test plot TP6; located on upper south side.



Photo 20. Sump outside LCRS Building.

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Appendix A
Inspection Agenda

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WELDON SPRING SITE ANNUAL INSPECTION
AGENDA

Tuesday, October 25, 2011

8:30 – 9:00 am

Inspectors/observers will divide into 2 separate groups. Review agenda, inspection teams, and safe work issues. Review inspection report and findings/corrective actions on last year's inspection. Team 1 (Team Leader - Terri Uhlmeyer) will cover the Chemical Plant Area. Team 2 (Team Leader – Randy Thompson) will cover the Southeast Drainage and the Quarry Area.

9:00 – 11:30 am

Team 1: Inspect land & shallow groundwater use on Army property and DOE property:

- Monitoring wells along Army property roads
- Drive all Army roads in proposed IC area and note any land disturbance
- Disposal Cell buffer zone
- Monitoring wells on DOE Chemical Plant property

Team 2: Inspect land & shallow groundwater use on Missouri Department of Conservation property, Weldon Spring Conservation Area:

- Southeast Drainage from Army Road to Hwy 94
- Hwy 94 culvert
- Southeast Drainage from Hwy 94 to Missouri River, incl Springs 5303 & 5304

11:30 am – 12:30 pm

Lunch

12:30 – 4:00 pm

Team 1: Inspect land & shallow groundwater use on Missouri Department of Conservation property, August A. Busch Conservation Area:

- Burgermeister Spring
- Spring 6303
- Monitoring wells along MDC roads
- Hwy D Culvert (Observe work that was recently completed)

Team 2: Inspect land & shallow groundwater use on Missouri Department of Conservation property, Weldon Spring Conservation Area and DOE property:

- DOE Quarry Property (Quarry rim wells)
- DOE Quarry Property (Quarry proper)
- Reduction zone area
- Public Water District #2 well field area

4:00 – 4:30 pm

Meeting in Room 3A: discuss day-1 inspection results

Wednesday, October 26, 2011

8:30 – 9:00 am

Meeting in Room 3A to review next inspection objectives. Inspectors/observers divide into 2 separate groups to cover 5 transects each on the disposal cell. The Team Leaders will be Terri Uhlmeier and Randy Thompson

9:00 – 11:30 am

Disposal Cell Inspection – Potential settlement, rock degradation, vegetation

Team 1: Walk 5 Transects

Team 2: Walk 5 Transects

11:30 am – 12:30 pm

Lunch

12:30 pm – 1:00 pm

Teams 1 & 2: reconvene in Room 3A for trip to LCRS.

1:00– 3:00 pm

Inspection of LCRS (No confined space entry planned).

Walk disposal cell buffer zone inspecting for erosion issues.

3:00 – 4:00 pm

Document and paperwork review

4:00 – 4:30 pm

Debriefing for DOE and Stoller management of preliminary inspection findings

Thursday, October 27, 2011

8:30-11:30

This time period will be used to conduct any items that do not fit within the 2 previous days, such as additional paperwork review, erosion inspections, walk-down of the LCRS pipeline, and inspection of the historical markers.

Appendix B
Corrective Action Report

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Corrective Actions from 2010 Weldon Spring LTSM Annual Inspection

1. Recommendation: Wells that required some type of maintenance.

- Need new contact label: MW-4020, 4031, 4006, 4007, 4002, 2014, 2017, 2034, 4041, 2055, 3003.
- Need new well numbers: MW-2055, 3024, 3025, 3037
- Need painted: MW-1052, 2017, 2034, 4041
- Loose bollards: MW-1049, 2023, 4029

Action: Apply the required maintenance to these wells.

Target Date: June 2011

Completed Date: July 2011

2. Recommendation: Restamp Survey Monument WQ12

Action: Restamp Survey Monument WQ12

Target Date: The survey monument was restamped on November 9, 2010.

Completed Date: November 2010

3. Recommendation: Place a new rock degradation test plot on the south side of the disposal cell.

Action: Place a new rock degradation test plot on the south side of the disposal cell.

Target Date: July 2011

Completed Date: July 2011

4. Recommendation: Place signs on the disposal cell stating that video surveillance is in use or similar type action. This is in response to vandalism on the disposal cell, including disturbance of Test Plot #5.

Action: Place signs on the disposal cell stating that video surveillance is in use or similar type action.

Target Date: July 2011

Completed Date: July 2011

5. Recommendation: Repair Survey Monument WS90 which was broke.

Action: Repair Survey Monument WS90.

Target Date: September 2011

Completed Date: July 2011

6. Recommendation: Continue to monitor and evaluate erosion on the Chemical Plant Site.

Action: Continue to monitor and evaluate erosion on the Chemical Plant Site.

Target Date: Ongoing.

Completed Date: Ongoing

Appendix C
Inspection Checklist

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Annual Site Inspection Checklist

Purpose of the Checklist

This checklist has been developed from the EPA guidance document *Comprehensive Five Year Review Guidance* dated June 2001 (OSWER No. 9355.7-03B-P) and from Section 2.3 of the *Long-Term Surveillance and Maintenance Plan for the Weldon Spring, Missouri, Site*. The checklist was modified to site-specific conditions as recommended by the guidance document. The checklist will be completed annually during the Weldon Spring Site annual surveillance and maintenance inspection. The checklist will also be used to assist in compiling information for the five-year review.

I. SITE INFORMATION	
Site name: DOE Weldon Spring Site	Date(s) of inspection: Oct 25-27, 2011
Location: St. Charles, MO	EPA ID: MO6210022830
Agencies accompanying DOE for portions of the annual inspection: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> EPA, Region 7 <input checked="" type="checkbox"/> MDNR <input checked="" type="checkbox"/> Other (list): MoDOT, MDC Commission of Env Qual St Charles County 	Weather: Sunny warm Oct 25 - windy Oct 26 - cloudy, cool
Remedy Includes: Disposal Cell Institutional controls Monitored Natural Attenuation Long Term Monitoring Other _____	
Inspectors: Terri Uhlmeier (Stoller) Randy Thompson (Stoller) Participants: Hoa Tran (EPA) Patrick Anderson (MDNR) Andrew Packars (MDNR) Ken Starr (DOE) Vijendra Kothari (DOE) Kevin Wideman (MoDOT) John Vogel (MDC) Tom Nelson (Comm. of Env Quality - St Charles County) Becky Cato (Stoller) Tom Welton (Stoller) Tim Zirbes (Stoller) _____ _____ _____	

II. INTERVIEWS (Check all that apply)

1. **Local Site Manager** Randy Thompson Site Manager 10/24/11
 Name Title Date
 Interviewed at site at office by phone Phone no. _____
 Problems, suggestions; Report attached _____

2. **Environmental Data Manager** Randy Thompson Data Manager 10/24/11
 Name Title Date
 Interviewed at site at office by phone Phone no. _____
 Check to ensure that environmental data is reviewed and trended.
 Problems, suggestions; Report attached _____

3. **Other Staff (as applicable)** N/A
 Name Title Date
 Interviewed at site at office by phone Phone no. _____
 Problems, suggestions; Report attached _____

4. **Local response agencies:** Contact to notify of annual inspection and to determine if there are any concerns or issues.

Agency: St. Charles County Sheriff
 Contact Jim Hudson Captain 10/3/11 636-949-7325
 Name Title Date Phone no.
 Problems; suggestions; Report attached _____

Agency: Cottleville Fire Department
 Contact Mark Boenke Asst Fire Chief / Fire Marshall 10/11/11 636-447-6655
 Name Title Date Phone no.
 Problems; suggestions; Report attached _____

Agency: SimplexGrinnel (LCRS and Interpretive Center Alarm Company)
 Contact Kristen _____ 10/3/11 888-746-7539
 Name Title Date Phone no.
 Problems; suggestions; Report attached _____

Agency: N/A
 Contact _____
 Name Title Date Phone no.
 Problems; suggestions; Report attached _____

5. **Stakeholders:** Contact to notify of annual inspection and to determine if there are any concerns or issues.

Agency: Francis Howell High School **Contact Name:** Mr. Randy Carter, Assistant Principal

Contact Name Current yes no

Phone Number Current yes no NA (new phone no. if applicable)

Contact NA NA 10/24/11 636-851-4700
 Name (if different than above) Title Date Phone no.

Problems; suggestions; Report attached _____

Agency: Missouri Department of Transportation (local office) **Contact Name:** Bill Wilcox

Contact Name Current yes no

Phone Number Current yes no NA (new phone no. if applicable)

Contact NA NA 10/20/11 636-441-8471
 Name (if different than above) Title Date Phone no.

Problems; suggestions; Report attached The local office is shutting down Nov, so this will no longer be a contact for the inspection

Agency: St. Charles County **Contact Name:** Pieter Sheehan, Environmental Public Health Manager

Contact Name Current yes no

Phone Number Current yes no NA (new phone no. if applicable)

Contact NA NA 10/3/11 636-949-7406
 Name (if different than above) Title Date Phone no.

Problems; suggestions; Report attached _____

6. **Other interviews** Report attached. N/A

III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1. **Documents**

Surveillance and Maintenance Plan Readily available Up to date N/A
 Maintenance logs (Plan of Week) Readily available Up to date N/A

Remarks _____

2. **Health and Safety Procedures**

Readily available Up to date N/A

Remarks _____

3. **Permits and Service Agreements**

NPDES Permits Readily available Up to date N/A
 MSD agreement and records Readily available Up to date N/A
 Other permits Readily available Up to date N/A

Remarks DOE submitted request to transfer sanitary wastewater NPDES permit to them from Lindenwood but has not yet been transferred.

4.	Groundwater Monitoring Records	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A
Remarks _____				
5.	Leachate Records	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A
Remarks <i>DOE will copy State and EPA on leachate data reports and emails</i>				
6.	Interpretative Center Sign-In Logs	<input checked="" type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input type="checkbox"/> N/A
Remarks _____				

IV. O&M COSTS

1.	O&M Cost Records (This information may be reviewed and completed prior to the inspection)
Original O&M cost estimate <u>2,090,902.49</u> (FY11)	
Total annual cost for prior federal fiscal year:	
From <u>10/1/10</u>	To <u>9/30/11</u> <u>1,732,739.75</u>
Date	Date Total cost
2.	Unanticipated or Unusually High O&M Costs During Review Period
Describe costs and reasons: <i>Higher costs due to culvert removal. The actual cost was lower than estimate due to the fact that the culvert transportation and disposal was include in the estimate and did not take place during FY11.</i>	

V. INSTITUTIONAL CONTROLS

Institutional Control (IC) Inspections	
1.	Land and Shallow Groundwater Use within the Chemical Plant Site and Quarry Property
Inspect for indications of excavations into soil or bedrock and groundwater withdrawal or use in restricted areas. If any party has been granted use of portions of the Chemical Plant or Quarry area, inspect to ensure that land use is in compliance with the terms of the restrictions within the notation. Note any observations: <i>No indications of Excavations or groundwater withdrawal or use. Found buffer zone monuments WS37, WS23. Lindenwood University is no longer occupying the building and has terminated the use agreement</i>	
2.	Groundwater Use in Areas Surrounding the Chemical Plant
Groundwater use is restricted in areas. Inspect affected areas for evidence of groundwater or spring water use (Burgermeister Spring and Spring 6303). Inspect to ensure that land use continues to be in compliance with the terms of the license, easement, or permit and the restrictions contained therein. Note any observations: <i>Inspected wells at Army property and the one well at Busch. Found monuments WS44, 46, 52, 90. Inspected Burgermeister + Spring 6303. 6303 was dry. No restrictions were being violated.</i>	

3.	<p>Groundwater (Quarry)</p> <p>Groundwater use is restricted in areas. Inspect affected areas for evidence of groundwater withdrawal or use in the area of impact. Inspect to ensure that land use continues to be in compliance with the terms of the license and the restrictions contained therein.</p> <p>Note any observations: <u>No evidence of gw use. No land use changes</u></p>
4.	<p>Land Use in Quarry Area Reduction Zone</p> <p>A naturally occurring reduction zone exists in soil south of the Katy Trail and north of the Femme Osage Slough. Inspect for indications of excavations into soils and bedrock in the uranium reduction zone. Inspect to ensure that land use continues to be in compliance with the terms of the easement and the restrictions contained therein.</p> <p>Note any observations: <u>No evidence of excavations into soil or bedrock. No dig labels were present on ballards. No land use changes</u></p>
5.	<p>Southeast Drainage</p> <p>Check for indications of residential use or construction in the Southeast Drainage (200-foot-wide corridor), or other activity that would indicate nonrecreational use of the area. Check Springs 5303 and 5304 for residential, commercial, or agricultural use of spring water.</p> <p>Note any observations: <u>No indications of residential use or construction in the SE drainage or corridor. No use of springs was noted. There was a tree down in Spring 5304. Erosion under the culvert under the Hamburg Trail.</u></p>
6.	<p>Highway D Culvert</p> <p>Check for signs of disturbance of the affected region where the Frog Pong outlet culverts pass beneath Highway D and in the utility rights-of-way in the affected area. Observe area where culvert was removed and replaced.</p> <p>Note any observations: <u>The new culvert looks good and drainage area. The old culvert which had fixed contamination was removed and is currently stored onsite and will be disposed at a low level rad land fill. These culverts will no longer require inspection.</u></p>
7.	<p>State Route 94 Culvert</p> <p>Check for signs of disturbance of the affected region where the culvert passes beneath State Route 94 and in the utility rights-of-way in the affected area. Observe culvert that has been cut.</p> <p>Note any observations: <u>The inlet was stopped up with debris. Kevin Wideman of MoDOT said they would address it.</u></p>

8. Pipeline from LCRS to Missouri River

Inspect the entire length of the pipeline and outfall for any disturbances or maintenance needs.

Note any observations: No disturbance in areas of pipeline or manholes. All 4 manholes were located.

Institutional Control Annual Contact Log

In accordance with the LTS&M Plan, the following will be contacted to verify cognizance of institutional controls and real estate agreements. Fill in all that apply.

- 1. Agency: Missouri Department of Conservation Contact Name: Joel Porath, Wildlife Regional Supv.
Address: August A. Busch Memorial Conservation Area, 2360 Highway D, St. Charles, MO 63304
Institutional Control and Real Estate Licenses to Verify: Chemical Plant Groundwater Use Restriction, Quarry Area Groundwater Use Restriction, Quarry Reduction Zone Land Use Restriction, Southeast Drainage Residential Use Restriction, North Gate Access, Well Sampling Access Agreement, Effluent Discharge Pipeline, Hamburg Trail Use Agreement.

Contact Name Current yes no
Phone Number Current yes no 636-300-1953 x 226 (new phone no. if applicable)

Contact NA NA 10/3/11 636-441-4554
Name (if different than above) Title Date Phone no. revised

Problems; suggestions; Report attached

- 2. Agency: Missouri Department of Conservation Contact Name: John Vogel, Area Manager
Address: August A. Busch Memorial Conservation Area, 2360 Highway D, St. Charles, MO 63304
Institutional Control and Real Estate Licenses to Verify: See No. 1

Contact Name Current yes no
Phone Number Current yes no NA (new phone no. if applicable)

Contact NA NA 10/3/11 636-300-1953 X 318
Name (if different than above) Title Date Phone no.

Problems; suggestions; Report attached

- 3. Agency: Missouri Department of Conservation Contact Name: Doyle Brown, Policy Coordinator
Address: P.O. Box 180, Jefferson City, MO 65102
Institutional Control and Real Estate Licenses to Verify: See No. 1

Contact Name Current yes no
Phone Number Current yes no (new phone no. if applicable)

Contact unknown NA 10/18/11 573-522-4115 x3355
Name (if different than above) Title Date Phone no.

Problems; suggestions; Report attached Doyle stated he is no longer in the same position and will establish a new contact

- 4. Agency: Missouri Department of Natural Resources Contact Name: Mary Bryan, Real Estate Manager
Address: P.O. Box 176, Jefferson City, MO 65102
Institutional Controls and Real Estate Licenses to Verify: Quarry Area Groundwater Use Restriction, Southeast Drainage Residential Use Restriction, Well Sampling Access Agreement, Effluent Discharge Pipeline

<p>Contact Name Current <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Phone Number Current <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <u>NA</u> (new phone no. if applicable)</p> <p>Contact <u>NA</u> <u>NA</u> <u>10/11/11</u> <u>573-751-7987</u> Name (if different than above) Title Date Phone no. Problems; suggestions; <input checked="" type="checkbox"/> Report attached</p>
<p>5. Agency: Missouri Department of Natural Resources Contact Name: Quinn Kellner, Natural Resource Manager, Jones-Confluence Point State Park Address: P.O. Box 67, West Alton, MO 63386 Institutional Controls and Real Estate Licenses to Verify: Quarry Area Groundwater Use Restriction, Southeast Drainage Residential Use Restriction, Well Sampling Access Agreement, Effluent Discharge Pipeline</p> <p>Contact Name Current <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Phone Number Current <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <u>NA</u> (new phone no. if applicable)</p> <p>Contact <u>NA</u> <u>NA</u> <u>10/13/11</u> <u>636-899-1135</u> Name (if different than above) Title Date Phone no. Problems; suggestions; <input checked="" type="checkbox"/> Report attached</p>
<p>6. Agency: Missouri Department of Transportation Contact Name: Tom Blair, Asst. District Engineer Address: 1590 Woodlake Dr., Chesterfield, MO 63017 Institutional Controls to and Real Estate Licenses to Verify: Chemical Plant Groundwater Use Restriction, and question MoDOT regarding Missouri State Highway 94 Culvert and Highway D culverts about plans for repairs/replacements.</p> <p>Contact Name Current <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Phone Number Current <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <u>NA</u> (new phone no. if applicable)</p> <p>Contact <u>NA</u> <u>NA</u> <u>10/18/11</u> <u>314-340-4203</u> Name (if different than above) Title Date Phone no. Problems; suggestions; <input checked="" type="checkbox"/> Report attached</p>
<p>7. Agency: Missouri Department of Transportation Contact Name: Kevin Wideman, Sr. Environmental Specialist Address: P.O. Box 270, Jefferson City, MO 65102 Institutional Controls to and Real Estate Licenses to Verify: Chemical Plant Groundwater Use Restriction, and question MoDOT regarding Missouri State Highway 94 Culvert and Highway D culverts about plans for repairs/replacements.</p> <p>Contact Name Current <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Phone Number Current <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <u>NA</u> (new phone no. if applicable)</p> <p>Contact <u>NA</u> <u>NA</u> <u>10/3/11</u> <u>573-526-4171</u> Name (if different than above) Title Date Phone no. Problems; suggestions; <input checked="" type="checkbox"/> Report attached</p>

8. **Agency:** Missouri Department of Transportation **Contact Name:** Jim Gremaud, St. Charles County Area Engineer
Address: 6780 Old Hwy. N. St. Charles, MO 63304
Institutional Controls to and Real Estate Licenses to Verify: Chemical Plant Groundwater Use Restriction, and question MoDOT regarding Missouri State Highway 94 Culvert and Highway D culverts about plans for repairs/replacements.
Contact Name Current yes no
Phone Number Current yes no _____ (new phone no. if applicable)
Contact Tom Evers same 10/13/11 636-240-5277
Name (if different than above) Title Date Phone no.
Problems; suggestions; Report attached _____

9. **Agency:** U.S. Dept. of Army **Contact Name:** Marsha Miller, Facility Manager
Address: Weldon Spring Training Area, 7301 Hwy 94 S. St. Charles, MO 63304
Institutional Controls to and Real Estate Licenses to Verify: Chemical Plant Groundwater Use Restriction, Effluent Discharge Pipeline, Well Sampling Access Agreement
Contact Name Current yes no
Phone Number Current yes no NA (new phone no. if applicable)
Contact NA NA 10/7/11 636-329-1200
Name (if different than above) Title Date Phone no.
Problems; suggestions; Report attached _____

10. **Agency:** St. Charles County Recorder of Deeds
Address: 201 N 2nd, St. Charles, MO 63301
Institutional Controls to and Real Estate Licenses to Verify: Recorded real estate restrictions at the Recorder of Deeds Office or on the Internet at www.saintcharlescounty.org http://recorder.sccmo.org/recorder/
Contact NA _____ NA _____ 10/11/11 _____
Name Title Date Phone no.
Problems; suggestions; Report attached Verified on the above website that the Notation of Land Ownership was filed in Book 3754, Page 419.

11. **Agency:** St. Charles County Planning and Zoning Department **Contact Name:** Wayne Anthony
Address: 201 N 2nd, St. Charles, MO 63301
Institutional Controls to and Real Estate Licenses to Verify: Awareness of Restrictions
Contact Name Current yes no
Phone Number Current yes no NA (new phone no. if applicable)
Contact NA NA 10/11/11 636-949-7900x7221
Name Title Date Phone no.
Problems; Report attached suggestions; _____

General	
1.	Land Use Changes On Site <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Remarks <u>low level radiologically contaminated culvert and other wastes stored pending disposal off site</u> <u>Lindenwood terminated use agreement</u>
2.	Land Use Changes Off Site that could affect site <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Remarks <u>The contaminated culvert under Hwy D was removed by DOE.</u>
VI. GENERAL SITE CONDITIONS	
1.	Roads <input checked="" type="checkbox"/> Location shown on site map Roads adequate <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Remarks _____
2.	Vandalism <input type="checkbox"/> Location shown on site map Vandalism noted <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Remarks <u>Minor rock movement</u>
3.	Personal Injury Risks Housekeeping maintained <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Remarks _____
4.	Site Markers (Four Information Plaques on Top of Cell, Historical Markers, and Other Information Markers) <input checked="" type="checkbox"/> Location shown on site map Legible and Secure <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No In Good Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Remarks <u>Historical Marker No #1 at conservation was put up completely on 11/3/11. The kiosk was in place during the inspection.</u>

5.	Guard Rail Around Cell <input checked="" type="checkbox"/> Location shown on site map Secure <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks _____ _____ _____	
6.	Stairs to Top of Cell <input type="checkbox"/> Location shown on site map Stairs in good condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Handrail stable and in good condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Remarks <i>The handrail will be inspected this year for possible maintenance</i>
Remarks _____ _____ _____	
7.	Other Site Conditions: Remarks _____ _____ _____ _____
VII. EROSION	
1.	Chemical Plant Areas <input checked="" type="checkbox"/> Location shown on site map Erosion evident <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Depth _____ Remarks <i>The erosion has been mapped 2007-2011. The erosion figure is included in the inspection report</i>
Remarks _____ _____ _____	
2.	Quarry Area <input type="checkbox"/> Location shown on site map Erosion evident <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Depth _____ Remarks _____
Remarks _____ _____ _____	

VIII. CHEMICAL PLANT DISPOSAL CELL

1. **Settlement /Bulges** Location shown on site map New settlement noted Yes No

A. Annually: Walk along the grade break at the top of the side slopes, around the cell perimeter, and along 10 transects across the cell surface. Inspect for local depressions, regional departures from planar surfaces, and shifts in intersections (vertices) of cell surface planes. Inspect for vertical shear of the cover layers indicated by sudden, abrupt steps that exceed an approximately 6-inch change of surface level over no more than 10 feet distance.

B. During 5-Year Review Inspections (Beginning 2005 and at 5-year Intervals): Conduct an aerial mapping survey with a vertical resolution not less precise than 0.5 feet. Produce and record maps and survey data for the cell surface represented by 1.0 foot contour intervals. Evaluate the data for indications of settlement. Consider the position and spacing of contour lines as indications of elevation change and possible settlement.

Remarks The inspectors walked the 10 transects. Did not note any additional settlement

2. **Rock Cover** Signs of degradation Yes No Signs of intrusion Yes No

A. Annually: During settlement monitoring inspection also visually inspect for departures from original rock conditions or from the previous inspection. Note observable discoloration on areas larger than 2,500 square feet, presence of finer materials at surface and apparent rock gradation changes. Document rock conditions annually with photographs.

B. During 5-Year Review Inspections (Beginning 2005 and at 5-year Intervals): Inspect cell cover for gradation changes by walking 10 transects across the cell. Concentrations of degraded, split, or weathered pieces of limestone will be mapped, photodocumented and visually assessed as a percentage of rock exposed within each mapped area. If degraded rock is evenly distributed, inspectors will estimate the overall percentage of degraded rock. If the amount of degraded rock appears to be increasing, based on a review of previous annual rock quality assessments, additional monitoring or gradation testing will be performed. If rock does not appear degraded, photodocumentation of several GPS located areas will establish rock conditions for future reference.

Remarks The 5 rock degradation test plots were compared to previous years photos. The rocks had not changed or degraded. New Test Plot # 6 was established and photographed as a baseline. Need to repaint the areas

3. **Vegetative Growth** Weeds or Plants on Cell Yes No

Remarks _____

4.	Wet Areas/ Water Damage	Wet areas <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Location shown on site map	Areal extent _____
		Ponding <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Location shown on site map	Areal extent _____
		Seeps <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Location shown on site map	Areal extent _____
		Remarks _____		
5.	Toe/Apron Drains	Proper drainage <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Silting <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		Erosion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remarks <i>There was erosion located on the NE corner of the NE Apron Drain</i>	
6.	Slope Instability	<input type="checkbox"/> Location shown on site map	Evidence of slope instability <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		Remarks _____		
7.	Leachate Collection and Removal System	<input checked="" type="checkbox"/> Fence/Gates/Locks in good condition		
		<input checked="" type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input checked="" type="checkbox"/> Good condition <input type="checkbox"/> No Trespassing sign posted		
		<input checked="" type="checkbox"/> Correct Phone Numbers Posted		
		Data Issues <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Flow Rate Issues <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		Remarks _____		
8.	Condition of 300 Ft. Buffer Zone	Erosion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Remarks <i>Northside. Are monitoring</i>		
9.	Condition of Prairie	Erosion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Remarks <i>Good condition of prairie</i>		
IX. GROUNDWATER MONITORING				
1.	Disposal Cell Monitoring Well Network	<input checked="" type="checkbox"/> Properly secured/locked <input checked="" type="checkbox"/> Good condition <input type="checkbox"/> Evidence of surface water infiltration at casing		
		<input type="checkbox"/> Needs maintenance <input checked="" type="checkbox"/> Proper ID on each well		
		Remarks <i>Inspected all 5 disposal cell wells MW-2032, 2046, 2047, 2051, 2055.</i>		

2. **Chemical Plant Groundwater Monitoring Well Network**
 Properly secured/locked Functioning
 Good condition Evidence of surface water infiltration at casing Needs maintenance
 List wells checked by number (> 10% of wells) MW-2005, 2006, 2012, 2013, 2017, 2022, 2023, 2033, 2034, 2049, 2050, 2052, 2053, 2054, 2056, 3024, 3025, 3029, 303, 3040, 4001, 4006, 4007, 4011, 4022, 4026, 4027, 4028, 4029, 4030, 4031, 4036, 4037, 4039, 4040, 4041, 4042, 4043
 Remarks _____

3. **Quarry Monitoring Well Network**
 Properly secured/locked Functioning
 Good condition Evidence of surface water infiltration at casing Needs maintenance
 List wells checked by number (> 10% of wells) MW-1002, 1004, 1005, 1006, 1007, 1008, 1009, 1013, 1014, 1027, 1028, 1030, 1031, 1032, 1045, 1047, 1048, 1049, 1051, 1052
 Remarks _____

X. OVERALL OBSERVATIONS

Implementation of the Remedies
 Describe issues and observations relating to whether the remedies are effective and functioning as designed.
None

Adequacy of O&M
 Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedies.
No issues

Early Indicators of Potential Remedy Problems

Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs that suggest that the protectiveness of one or more of the remedies may be compromised in the future.

NO ISSUES

Opportunities for Optimization

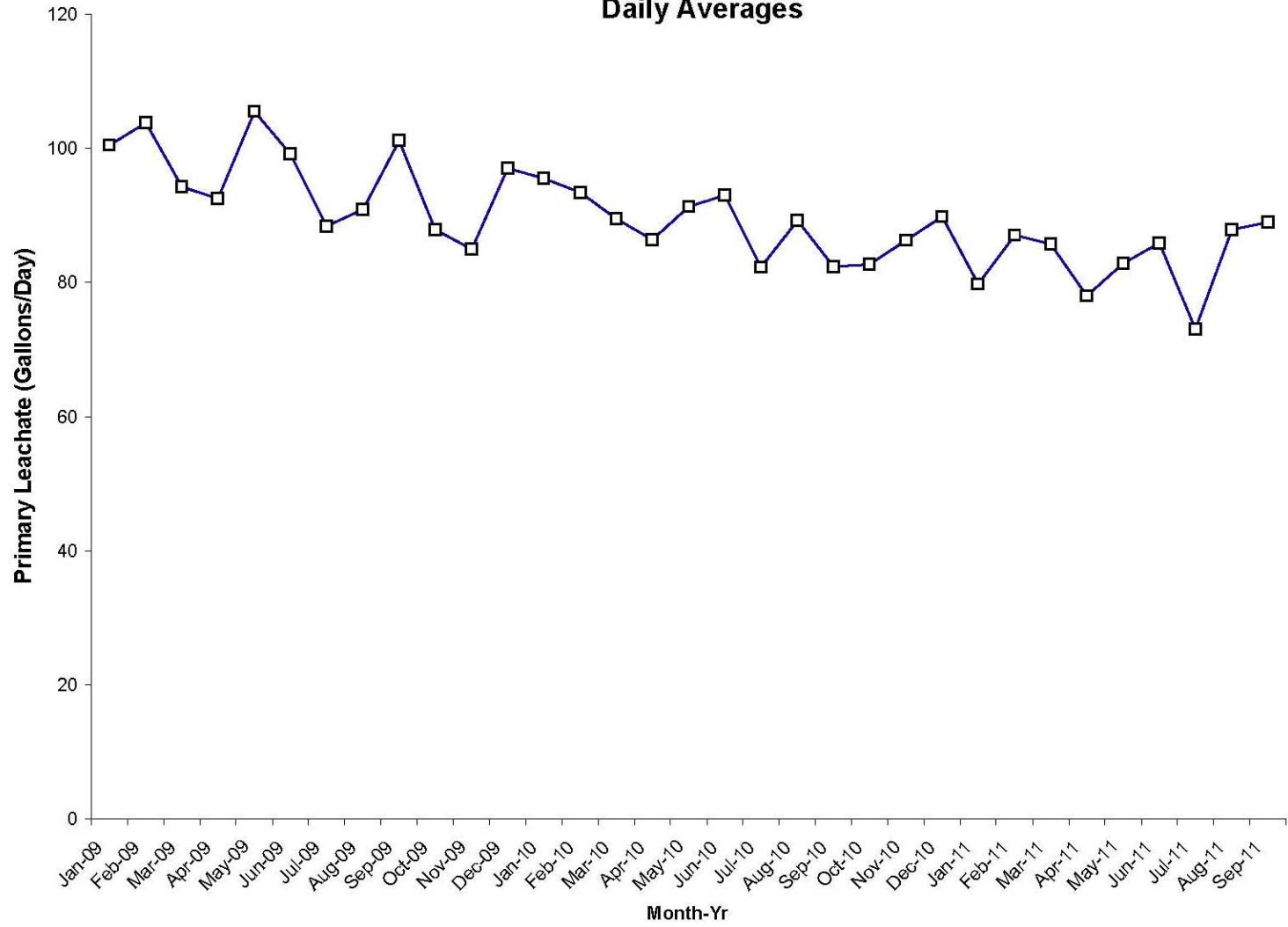
Describe possible opportunities for optimization in monitoring tasks or the operation of the remedies.

NA

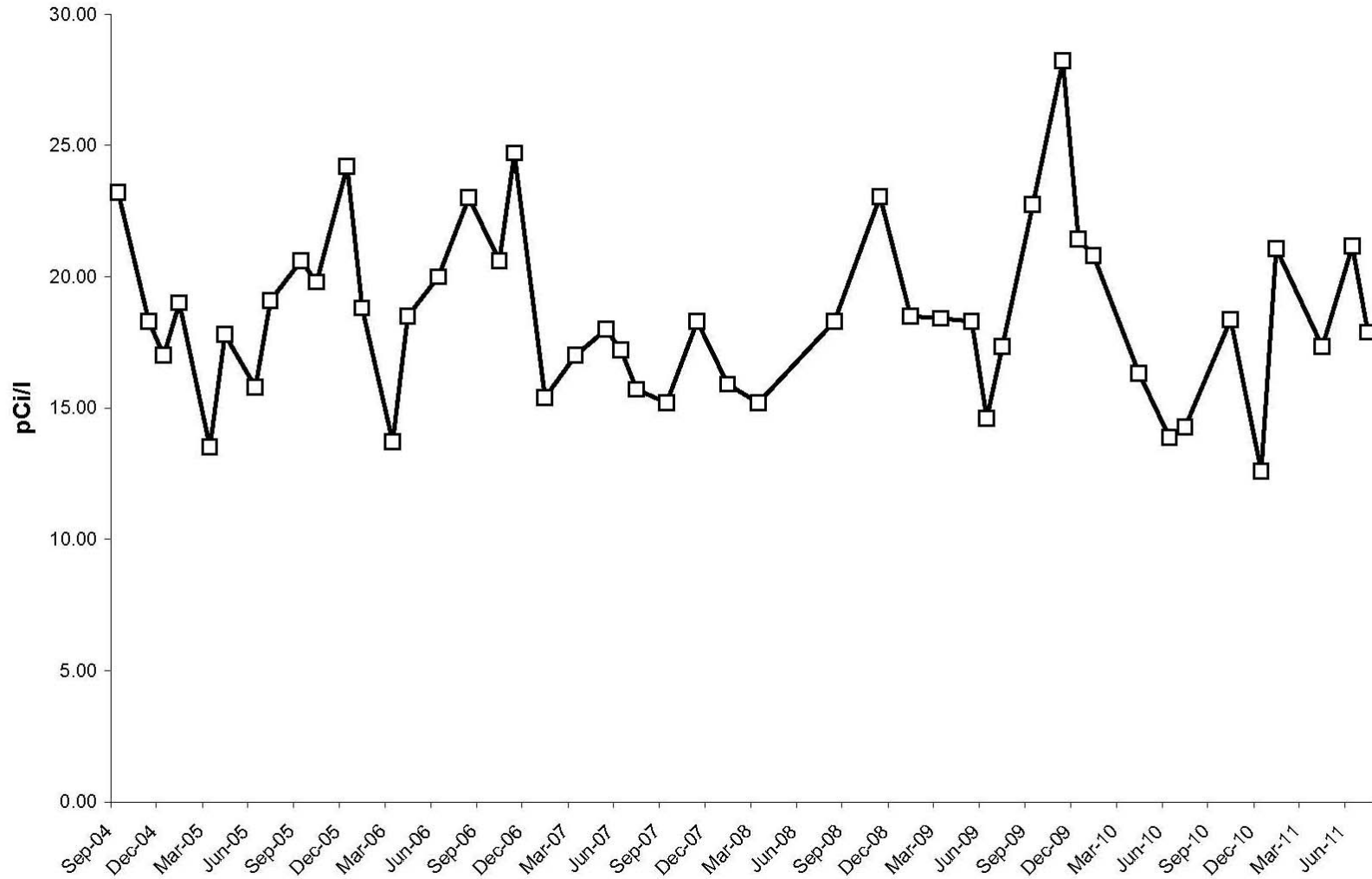
Appendix D
LCRS Data

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PRIMARY LEACHATE FLOW Daily Averages



Total Uranium Levels in the Primary Leachate



Month/ Year	Days	Sump Volume Start (gal)	Sump Volume End of Month (gal)	Transferred from sump (gal)	Transferred to Sump from the Burrito (gal)	Purge water transferred to Sump (gal)	East Secondary Total per Month (gal)	West Secondary Total per Month (gal)	Primary Leachate Total Volume per month (gal)	Primary Leachate (gal/day)	East Secondary (gal/day)	West Secondary (gal/day)	Burrito Flow (gal/day)	Combined Leachate Flow Rate from Primary, Secondary and Burrito Water (gal/day)	Combined Secondary and Burrito Water Leak Rate (gal/acre/day)
Jan-09	31	8,755	3,417	8,710	157	0	87	14	3114	100	2.8	0.5	5.1	109	0.35
Feb-09	28	3,417	6,542	0	125	0	78	14	2908	104	2.8	0.5	4.5	112	0.32
Mar-09	31	6,542	2,455	7,303	154	33	90	16	2923	94	2.9	0.5	5.0	103	0.35
Apr-09	30	2,445	5,493	0	176	0	83	14	2775	93	2.8	0.5	5.9	102	0.38
May-09	31	5,493	2,012	7,037	195	0	77	14	3270	105	2.5	0.5	6.3	115	0.38
Jun-09	30	2,012	5,338	0	220	28	86	17	2975	99	2.9	0.6	7.3	110	0.45
Jul-09	31	5,338	1,275	7,222	268	0	86	14	2741	88	2.8	0.5	8.6	100	0.49
Aug-09	31	1,275	4445	0	250	0	87	15	2818	91	2.8	0.5	8.1	102	0.47
Sep-09	30	4,445	3398	4,486	253	56	82	13	3035	101	2.7	0.4	8.4	113	0.48
Oct-09	31	3,398	6,509	0	292	0	83	12	2724	88	2.7	0.4	9.4	100	0.52
Nov-09	30	6,509	1815	7,578	244	0	78	12	2550	85	2.6	0.4	8.1	96	0.46
Dec-09	31	1,815	5,138	0	228	0	74	13	3008	97	2.4	0.4	7.4	107	0.42
Jan-10	31	5,138	2,149	6,250	201	0	81	18	2961	96	2.6	0.6	6.5	105	0.40
Feb-10	28	2,149	5,038	0	155	36	72	11	2615	93	2.6	0.4	5.5	102	0.35
Mar-10	31	5,038	8,077	0	169	0	82	13	2775	90	2.6	0.4	5.5	98	0.35
Apr-10	30	8,077	3347	7,587	177	0	77	11	2592	86	2.6	0.4	5.9	95	0.37
May-10	31	3,347	6509	0	236	0	81	13	2832	91	2.6	0.4	7.6	102	0.44
Jun-10	30	6,509	9,651	0	265	0	75	11	2791	93	2.5	0.4	8.8	105	0.49
Jul-10	31	9,651	2755	9,826	294	0	76	10	2550	82	2.5	0.3	9.5	95	0.51
Aug-10	31	2755	5906	0	301	0	73	11	2766	89	2.4	0.4	9.7	102	0.52
Sep-10	30	5906	8740	0	285	0	69	10	2470	82	2.3	0.3	9.5	94	0.51
Oct-10	31	8740	3955	7,685	255	0	69	12	2564	83	2.2	0.4	8.2	94	0.45
Nov-10	30	3955	6888	0	229	38	67	10	2589	86	2.2	0.3	7.6	97	0.43
Dec-10	31	6888	9981	0	228	0	69	10	2786	90	2.2	0.3	7.4	100	0.41
Jan-11	31	9981	3142	9586	202	0	65	8	2472	80	2.1	0.3	6.5	89	0.37
Feb-11	28	3142	5826	0	171	0	63	11	2439	87	2.3	0.4	6.1	96	0.36
Mar-11	31	5826	8744	0	178	0	71	11	2659	86	2.3	0.3	5.7	94	0.35
Apr-11	30	8744	3834	7536	198	24	56	7	2342	78	1.9	0.2	6.6	87	0.36
May-11	31	3834	6711	0	232	0	66	9	2570	83	2.1	0.3	7.5	93	0.41
Jun-11	30	6711	9644	0	274	0	70	11	2578	86	2.3	0.4	9.1	98	0.49
Jul-11	31	9644	2573	9696	287	0	63	9	2266	73	2.0	0.3	9.3	85	0.48
Aug-11	31	2573	5643	0	276	0	60	8	2726	88	1.9	0.3	8.9	99	0.46
Sep-11	30	5643	8621	0	250	0	52	7	2669	89	1.7	0.2	8.3	99	0.43
Oct-11	30	8621	3650	7853	260	0	62	9	2551	85	2.1	0.3	8.7	96	0.46

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Appendix E
Interviews and Contacts

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INTERVIEW RECORD**Site Name: Weldon Spring Site** EPA ID No.: MO6210022830**Subject: Annual Inspection** Time: 10:30 am Date: 10/3/11Type: Telephone Visit Other Incoming Outgoing
Location of Visit:**Contact Made By:**

Name: Terri Uhlmeyer Title: Compliance Manager Organization: SM Stoller, Corp.

Individual Contacted:

Name: Joel Porath Title: Wildlife Regional Supv. Organization: August A. Busch Memorial Conservation Area, Missouri Department of Conservation

Telephone No: 636-300-1953 x 226 Street Address: 2360 Hwy D
Fax No: City, State, Zip: St. Charles, MO 63304
E-Mail Address:**Summary Of Conversation**

I contacted Joel Porath and notified him of the Weldon Spring Site's LTS&M annual inspection on October 25-26, 2011. I informed him that we would be on MDC property inspecting the Southeast Drainage, Burgermeister Spring, Spring 6303 and MW -4041. I discussed fact that DOE and MDC had signed the easement this summer. He stated that John Vogel or himself would be attending the inspection.

INTERVIEW RECORD		
Site Name: Weldon Spring Site		EPA ID No.: MO6210022830
Subject: Annual Inspection		Time: 8:30am Date: 10/24/11
Type: ___ Telephone <input checked="" type="checkbox"/> Visit ___ Other		Incoming ___ Outgoing
Location of Visit: Administration Building		
Contact Made By:		
Name: Terri Uhlmeier	Title: Compliance Manager	Organization: S.M. Stoller Corp.
Individual Contacted:		
Name: Randy Thompson	Title: Site Manager	Organization: S.M. Stoller Corp.
Telephone No: 636-926-7040 Fax No: 636-447-0739 E-Mail Address: randy.thompson@lm.doc.gov	Street Address: 7295 Hwy. 94 South City, State, Zip: St. Charles, MO 63304	
Summary Of Conversation		
<p>I interviewed Randy Thompson, the S.M. Stoller Site Manager at the Weldon Spring Site since June 2011. The interviewing of the Site Manager is a requirement included in the Annual Inspection Checklist. Most of the interview questions were from the CERCLA Five-year Review Guidance.</p> <ol style="list-style-type: none"> 1. Current Status of the Project: Long-term surveillance and maintenance. 2. Any problems encountered with the remedies? None at this time. 3. Are the remedies functioning as expected? Yes. 4. Any vandalism or trespassing issues? As discussed in past Annual Inspection interviews, public use of the site is frequent. Nighttime access of the disposal cell viewing platform and other undesirable behaviors (littering, etc.) continue to be dramatically curtailed through a private security firm's seasonal patrol coverage of the site during evening hours and use of the safety-address system at the Interpretive Center. 5. What is the current on-site presence? Describe staff and activities. There are 9 full-time contractor employees and numerous part-time contractor and subcontractor employees. Activities include long-term surveillance and maintenance operations, project management, data evaluation, operation of the interpretive center, preparation of site-related regulatory documents, support in establishment of institutional controls, support of site IT and telephone issues, landscape management and general administrative support. On-site staff also provide support on other DOE sites such as Mound, Fernald, and Pinellas and to other projects such as Reuse and Property Management. Environmental sampling personnel support sampling activities at other sites in the Legacy Management system. Since April when Lindenwood University terminated the use-agreement with DOE, SM Stoller has been tasked to operate and maintain the site facilities and associated property that Lindenwood was providing for DOE. 6. Are there any issues associated with the site at this time? None concerning site protectiveness to the environment or the public. 7. Any suggestions or comments regarding annual inspection? Continues to provide as useful mechanism to evaluate the site and the protectiveness to environment and public. 		

INTERVIEW RECORD

Site Name: Weldon Spring Site		EPA ID No.: MO6210022830	
Subject: Annual Inspection		Time: 8:00 am	Date: 10/24/11
Type: ___ Telephone <input checked="" type="checkbox"/> Visit ___ Other		Incoming ___ Outgoing	
Location of Visit: Weldon Spring Site			
Contact Made By:			
Name: Terri Uhlmeier	Title: Compliance Manager	Organization: SM Stoller, Corp.	
Individual Contacted:			
Name: Randy Thompson/Melissa Lutz	Title: Site/Operation Manager	Organization: SM Stoller, Corp.	
Telephone No: 636-926-7039		Street Address: Weldon Spring Site	
Fax No: 636-447-0803		City, State, Zip:	
E-Mail Address: Melissa.lutz@lm.doe.gov			

I interviewed Randy Thompson. Site Manager and Melissa Lutz, Operations Manager who are responsible for sampling programs at the Weldon Spring Site. The interviewing of the data (operations) manager is a requirement included in the Annual Inspection Checklist.

- 1. What is the current status of data validation/reporting?** Data validation and review is completed for data through July 2011. The data validation and review is being worked for samples collected during August through September 2011.
- 2. How is the data reported?** After data validation and review, the qualification flags are applied and the data is then available on the LM/Weldon Spring website the next day. We continue to prepare data validation reports and the yearly data are summarized in the annual environmental report.
- 3. What is the current status of the data on the website? Are we meeting our 90-day commitment as stated in the LTSM?** Yes, we are meeting our 90-day commitment. The data are reviewed and validated through July 2011 and are available online. The August through September 2011 data are being validated and will be released shortly.
- 4. Are there any trends that show contaminants increasing or decreasing?** Trend analysis is performed annually and summarized for the Annual Site Environmental Report.

INTERVIEW RECORD

Site Name: Weldon Spring Site		EPA ID No.: MO6210022830	
Subject: Annual Inspection		Time: 11:00 am	Date: 10/11/11
Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other		Incoming <input checked="" type="checkbox"/> Outgoing	
Location of Visit:			
Contact Made By:			
Name: Terri Uhlmeier		Title: Compliance Manager	Organization: SM Stoller, Corp.
Individual Contacted:			
Name: Mark Boehle		Title: Assistant Fire Chief	Organization: Cottleville Fire Dept
Telephone No: 636-447-6655 ext. 8703		Street Address: PO Box 385	
Fax No:		City, State, Zip: Cottleville, MO 63338	
E-Mail Address:			

Summary Of Conversation

I contacted Mark Boehle of the Cottleville Fire Department and informed him that DOE would be conducting the Long-Term Surveillance and Maintenance annual inspection at the Weldon Spring Site on October 25-26, 2011. I told him that as we discussed the last several years, DOE would be conducting this inspection every year and would use this call in the future to keep in contact with the Cottleville Fire Department and to find out if they have any concerns or issues. We discussed the fact that Mark had come in and met with us on June 23, 2011. The minutes from that meeting are attached. Some of the action items from that meeting are still ongoing.

Notes from Meeting with Mark Boehle of Cottleville Fire Department
June 23, 2011

Melissa Lutz and Terri Uhlmeier met with Mark Boehle, assistant chief/fire marshal, at the site on June 23, 2011 at 9:30 am. The topics from the attached agenda were discussed. The purpose of the meeting was to re-familiarize the fire district with the site and the site activities.

The main notes from the meeting are as follows:

- The site is not in the Cottleville Fire District or any other fire district. When the site was under remediation, DOE had a contract with the Cottleville Fire District. Mark suggested that the site manager contact Chief Wylie at 634-447-6655 ext. 8700 to establish another contract. This does not mean that the fire department would not respond, only that charges have not been agreed upon ahead of time.
- Prescribed Burns were discussed and it was agreed to contact Mark prior to the burn. The contractor also contacts the fire district.
- Mark stated that a brush truck with water always responds to grass and prairie fires. The pumper truck usually arrives first.
- Gate D entrance was discussed. It was suggested that we put a dual Knox lock on the gates and the fire department will have a key. Mark will provide Terri with the website.
- We will provide Mark an updated map of the site.
- The fire department can inspect fire hydrants if they are under contract.
- It is recommended that fire hydrants be inspected yearly.
- Mark suggested that members of the department come for a short tour.
- It was suggested that our address be very clear on a sign next to the front entrance and ensure that both buildings are clearly marked.
- Mark toured the building and noted that when Lindenwood made renovations they did not follow the fire codes in relation to sprinkler coverage. He also noted that many of the sprinkler rings are not on.
- We informed Mark that a portion of or all of the administration building may be demolished and removed. A decision should be made by DOE over the next few months. We will keep Mark informed of configuration changes.
- We discussed the current confined spaces with Mark.

Action Items

- Order Knox locks for gates and install.
- Provide Mark with a new map of the current site configuration.
- Organize a tour for the other fire department members.
- Ensure address is clearly marked on front entrance sign.
- Ensure the buildings are clearly marked.

Work with Randy (site manager) and Chief Wylie (Cottleville Fire Department) on contract.

INTERVIEW RECORD

Site Name: Weldon Spring Site		EPA ID No.: MO6210022830	
Subject: Annual Inspection		Time: 10:30 am	Date: 10/7/11
Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other		Incoming <input checked="" type="checkbox"/> Outgoing	
Location of Visit:			
Contact Made By:			
Name: Terri Uhlmeier		Title: Compliance Manager	Organization: SM Stoller, Corp.
Individual Contacted:			
Name: Marsha Miller		Title: Facility Manager	Organization: Army
Telephone No: 636-329-1200 ext. 2401		Street Address: 7301 Hwy. 94 South	
Fax No:		City, State, Zip: St. Charles, MO 63304	
E-Mail Address:			

Summary Of Conversation

I contacted Marsha Miller of the 88th Regional Readiness Command at the Weldon Spring Army site and notified her that DOE would be conducting the annual LTS&M inspection at the Weldon Spring Site on October 25-26, and that we would be on Army property on the morning of the 25th. I told her we would be driving around on the Army site and inspecting our wells and survey monuments and pins. She said we should check in at the gate and she would put us on their calendar. She said to call in the day before and get the codes for the gate as they now keep the gate shut at all times.

INTERVIEW RECORD

Site Name: Weldon Spring Site		EPA ID No.: MO6210022830	
Subject: Annual Inspection		Time: 12:40 pm	Date: 10/3/11
Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other		Incoming <input checked="" type="checkbox"/> Outgoing	
Location of Visit:			
Contact Made By:			
Name: Terri Uhlmeier		Title: Compliance Manager	Organization: SM Stoller, Corp.
Individual Contacted:			
Name: Pieter Sheehan		Title: Environmental Public Health Manager	Organization: St. Charles County
Telephone No: 636-949-7406		Street Address: 201 North Second Street, Suite 537	
Fax No:		City, State, Zip: St. Charles, MO 63301	
E-Mail Address: psheehan@sccmo.org			

Summary Of Conversation

I contacted Pieter Sheehan, Environmental Public Health Manager for St. Charles County. I explained that as discussed with him last two years, DOE conducts an annual Long-Term Surveillance and Maintenance inspection each year and as part of the inspection we would be contacting certain stakeholders to maintain contact with them and to determine if they had any concerns or issues about the site. Our inspection this year is Oct. 25-26. Also noted that we had sent Mr. Sheehan the 30-day notification and copy of the agenda. He wasn't sure yet if anyone from his office would be attending but that he would let me know. We talked about what would be required as far as foot gear, etc. He said he did not have any concerns to discuss at this time.

INTERVIEW RECORD**Site Name: Weldon Spring Site** **EPA ID No.: MO6210022830****Subject: Annual Inspection** **Time: 9:30 am** **Date: 10/11/11****Type:** Telephone Visit Other **Incoming** **Outgoing**
Location of Visit:**Contact Made By:****Name: Terri Uhlmeyer** **Title: Compliance Manager** **Organization: SM Stoller, Corp.****Individual Contacted:****Name: Wayne Anthony** **Title:** **Organization: St. Charles Planning and Zoning Department****Telephone No: 636-949-7900 x7221** **Street Address:**
Fax No: **City, State, Zip:**
E-Mail Address:**Summary Of Conversation**

I contacted Wayne Anthony of the St. Charles Planning and Zoning Department. Mr. Anthony had been the project's previous contact in this department in regards to the county's master plan. I informed Mr. Anthony that DOE would be conducting their annual LTS&M inspection on October 25-26 and I asked him if there were any planning and zoning activities currently in the one-quarter mile surrounding the chemical plant and quarry properties. Mr. Anthony verified that there were not any such activities that he was aware of.

INTERVIEW RECORD		
Site Name: Weldon Spring Site		EPA ID No.: MO6210022830
Subject: Annual Inspection		Time: 2:00 pm Date: 10/24/11
Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other		Incoming <input checked="" type="checkbox"/> Outgoing
Location of Visit:		
Contact Made By:		
Name: Terri Uhlmeyer	Title: Compliance Manager	Organization: SM Stoller, Corp.
Individual Contacted:		
Name: Randy Carter	Title: Assistant Principal	Organization: Francis Howell High School
Telephone No: 636-851-4080 x4701	Street Address: 7001 Hwy 94 South	
Fax No:	City, State, Zip: St. Charles, MO 63304	
E-Mail Address:		
Summary Of Conversation		
<p>I contacted Randy Carter, the assistant principal of Francis Howell High School, as he had been my contact for the last 5 years, and explained that DOE would be conducting an annual Long-Term Surveillance and Maintenance inspection each year and as part of the inspection we contact certain stakeholders, such as the Francis Howell High School to maintain contact with them and to determine if they had any concerns or issues about the site. I told Mr. Carter the inspection would be October 25-26. He stated that they did not have any concerns at this time. He said he had sent an email out to all the PE teachers, since they use our site, and asked if there were any special requests and they did not have any but said they enjoy the opportunity to use our site. I informed him that the inspection report would be on our website at www.wssrap.com. I informed Mr. Carter that Lindenwood was no longer at the site and that DOE was evaluating what to do with the building. He asked me about how many classrooms the building had. I responded and told him if he ever wanted to come look at the building, he was welcome, he said he might do that.</p>		

INTERVIEW RECORD		
Site Name: Weldon Spring Site		EPA ID No.:MO6210022830
Subject: Annual Inspection		Time: 12:30 pm Date: 10/3/11
Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other		Incoming <input checked="" type="checkbox"/> Outgoing
Location of Visit:		
Contact Made By:		
Name: Terri Uhlmeyer	Title: Compliance Manager	Organization: SM Stoller, Corp.
Individual Contacted:		
Name: Kristen	Title:	Organization: Simplex/Grinnell
Telephone No: 888-746-7539	Street Address:	
Fax No:	City, State, Zip:	
E-Mail Address:		
Summary Of Conversation		
<p>I contacted Simplex/Grinnell, the alarm company for the project, and talked to Kristy. I verified that they had the correct three people as contacts and that they also had the correct work, home and cell number for each person. I noted that she stated that the account was under Lindenwood University. I contacted Randy Thompson and made him aware that they still had us listed under Lindenwood and he said he would get with procurement and have that corrected.</p>		

INTERVIEW RECORD		
Site Name: Weldon Spring Site		EPA ID No.: MO6210022830
Subject: Annual Inspection		Time: 10:00 am Date: 10/3/11
Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other		Incoming <input checked="" type="checkbox"/> Outgoing
Location of Visit:		
Contact Made By:		
Name: Terri Uhlmeier	Title: Compliance Manager	Organization: SM Stoller, Corp.
Individual Contacted:		
Name: Jim Hudson	Title: Captain	Organization: St. Charles County Sheriff Office
Telephone No: 636-949-7325		Street Address: City, State, Zip:
Fax No: 636-949-7525		
E-Mail Address:		
Summary Of Conversation		
<p>I contacted Captain Jim Hudson of the St. Charles County Sheriff's Office and informed him that the annual LTS&M inspection would be taking place on October 25-26, 2011. I had talked to Captain Hudson the last nine years and reminded him that we would be contacting the Sheriff's office annually to keep in contact with them and check to see if they had any issues or concerns. Captain Hudson said he did not know of any concerns at this time. I informed him that I had in years past discussed vandalism issues with fireworks and other items on the disposal cell. I also told him as I had last year that in addition to signs that said the cell was closed at night and that during the summer of 2007 we had hired a security firm to patrol on the weekends and one random week night and that the majority of the vandalism had been curtailed. I also informed him again that we had posted signs a couple years ago in the parking lot that stated "No High School or Commuter Parking" and our problems with the high school students driving excessively fast and dangerously in our parking lot had also been curtailed. Captain Hudson had assisted us with the high school parking issue and had provided the name of the school resource officer, etc. I also informed him that Lindenwood was no longer located at the site and that had been the major change over the year and that plans are in process for possibly demolishing the administration building and building a new building and I would keep him informed.</p>		

INTERVIEW RECORD

Site Name: Weldon Spring Site		EPA ID No.: MO6210022830	
Subject: Annual Inspection		Time: 11:15 am	Date: 10/21/11
Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other		Incoming <input checked="" type="checkbox"/> Outgoing	
Location of Visit:			
Contact Made By:			
Name: Terri Uhlmeier		Title: Compliance Manager	Organization: SM Stoller, Corp.
Individual Contacted:			
Name: Bill Wilcox		Title:	Organization: Missouri Department of Transportation
Telephone No: 636-441-8471		Address:	
Fax No:		City, State, Zip: St. Charles, Mo 63304	
E-Mail Address:			

Summary Of Conversation

I contacted Bill Wilcox of the Missouri Department of Transportation local office. I explained to Bill that DOE conducts an annual Long-Term Surveillance and Maintenance inspection each year and as part of the inspection we would be contacting certain stakeholders to maintain contact with them and to determine if they had any concerns or issues about the site. I informed Bill that our inspection this year would be on October 25-26. I informed him that I had contacted Kevin Wideman and he would be participating in the inspection. We discussed the coordination that had taken place earlier this year between MoDOT and DOE in regards to Stoller cutting off a portion of the Hwy 94 culvert and the future and coordination regarding the widening of Hwy D and subsequent removal of the Hwy D culvert. Bill informed me that their location would be completely closed on November 1.

INTERVIEW RECORD

Site Name: Weldon Spring Site	EPA ID No.: MO6210022830
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Subject: Annual Inspection	Time: 1:00 pm	Date: 10/18/11
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Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other	Incoming <input checked="" type="checkbox"/> Outgoing
Location of Visit:	

Contact Made By:

Name: Terri Uhlmeier	Title: Compliance Manager	Organization: SM Stoller, Corp.
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Individual Contacted:

Name: Doyle Brown	Title: Policy Coordinator	Organization: Missouri Department of Conservation
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Telephone No: 573-522-4115 x3355	Address: P.O. Box 180 City, State, Zip: Jefferson City, Mo 65102
Fax No:	
E-Mail Address:	

Summary Of Conversation

I contacted Doyle Brown of the Missouri Department of Conservation. I informed Mr. Brown that our inspection this year would be on October 25-26. He had been copied on the 30-day notification and the agenda. I discussed that that DOE conducts an annual Long-Term Surveillance and Maintenance inspection each year and as part of the inspection we contact certain stakeholders to maintain contact with them and to discuss the institutional controls or planned institutional controls and to determine if they had any concerns or issues about the site. We discussed the fact that the easement with MDC had been signed this summer. I told him I had talked to Joel Porath and John Vogel and John would be participating in the inspection. Mr. Brown informed me he had taken a new position in January and the Policy position had not been filled to date. He said he would talk to his supervisor about establishing another contact for the site. I told him I would email him my contact information. I sent Mr. Brown an email with my contact information and a copy of the signed easement.

INTERVIEW RECORD

Site Name: Weldon Spring Site	EPA ID No.: MO6210022830
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Subject: Annual Inspection	Time: 10:45 am	Date: 10/3/11
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Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other	<input type="checkbox"/> Incoming <input checked="" type="checkbox"/> Outgoing
Location of Visit: Weldon Spring Site	

Contact Made By:

Name: Terri Uhlmeier	Title: Compliance Manager	Organization: SM Stoller, Corp.
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Individual Contacted:

Name: John Vogel	Title: Area Manager	Organization: August A. Busch Memorial Conservation Area, Missouri Dept. of Conservation
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Telephone No: 636-300-1953 ext. 318	Street Address: 2360 Hwy D
Fax No:	City, State, Zip: St. Charles, MO 63304
E-Mail Address:	

Summary Of Conversation

I contacted John Vogel, to notify him of the annual inspection that was going to take place on October 25-26, 2011. DOE had previously sent John a copy of the notification and agenda for the inspection. He said he planned to participate in the inspection of the Southeast Drainage. He said that the only hunting that would be going on, would be the possibility of squirrel hunters in the area. We discussed the fact that the easement with MDC had recently been signed. John said he did not have any issues of concerns at this time.

INTERVIEW RECORD

Site Name: Weldon Spring Site		EPA ID No.: MO6210022830	
Subject: Annual Inspection		Time: 9:00 am	Date: 10/3/11
Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other		Incoming <input checked="" type="checkbox"/> Outgoing	
Location of Visit:			

Contact Made By:

Name: Terri Uhlmeier	Title: Compliance Manager	Organization: SM Stoller, Corp.
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Individual Contacted:

Name: Kevin Wideman	Title: Sr. Environmental Specialist	Organization: Missouri Department of Transportation
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Telephone No: 573-526-4171	Address: P.O. Box 270 City, State, Zip: Jefferson City, Mo 65102
Fax No:	
E-Mail Address:	

Summary Of Conversation

I contacted Kevin Wideman of the Missouri Department of Transportation. I discussed with Kevin that DOE conducts an annual Long-Term Surveillance and Maintenance inspection each year (which he attended the past 3 years) and as part of the inspection we would be contacting certain stakeholders to maintain contact with them and to determine if they had any concerns or issues about the site. I informed Mr. Wideman that our inspection this year would be on October 25-26. Kevin had been copied on the 30-day notification and the agenda. He stated that he planned to attend the first day of the inspection. We discussed the coordination between DOE and MoDOT regarding the MDot proposed easement and the recent culvert work.

INTERVIEW RECORD

Site Name: Weldon Spring Site	EPA ID No.: MO6210022830
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Subject: Annual Inspection	Time: 12:00 pm	Date: 10/11/11
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Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other	Incoming <input checked="" type="checkbox"/> Outgoing
Location of Visit:	

Contact Made By:

Name: Terri Uhlmeier	Title: Compliance Manager	Organization: SM Stoller, Corp.
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Individual Contacted:

Name: Mary Bryan	Title: Real Estate Manager	Organization: MDNR-Parks
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Telephone No: 573-751-7987	Street Address: PO Box 176 City, State, Zip: Jefferson City, MO 65102
Fax No:	
E-Mail Address:	

Summary Of Conversation

I contacted Mary Bryan, MDNR-Parks, and explained as I discussed with her the last several years, DOE conducts an annual Long-Term Surveillance and Maintenance inspection each year and as part of the inspection we contact certain stakeholders to maintain contact with them, to discuss the ICs and to determine if they had any concerns or issues about the site. I informed Ms. Bryan that our inspection this year would be on October 25-26. I told her that I had also contacted Quinn Kellner and sent him a copy of the agenda. We discussed that DOE had a signed easement with MDNR-Parks, and that the easement had actually been signed and finalized. Ms. Bryan stated that she contacted Quinn and they did not have any concerns at this time.

INTERVIEW RECORD

Site Name: Weldon Spring Site	EPA ID No.: MO6210022830
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Subject: Annual Inspection	Time: 9:30 am	Date: 10/3/11
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Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other	Incoming <input checked="" type="checkbox"/> Outgoing
Location of Visit:	

Contact Made By:

Name: Terri Uhlmeier	Title: Compliance Manager	Organization: SM Stoller, Corp.
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Individual Contacted:

Name: Quinn Kellner	Title: Natural Resource Manager	Organization: MDNR-Parks
	Jones-Confluence State Park	

Telephone No: 636-899-1135	Street Address: PO Box 67
Fax No:	City, State, Zip: West Alton, MO 63386
E-Mail Address:	

Summary Of Conversation

I contacted Quinn Kellner, MDNR-Parks, and notified him of the LTS&M annual inspection at the Weldon Spring site on October 25-26, 2011. He had been previously notified by copy of the regulator 30-day notification letter and a copy of the agenda. He stated that he would not be attending the inspection this year and that he did not have any concerns. He attended the 2008 inspection and came familiar with the areas along the Katy Trail referenced in the DOE easement with MDNR-Parks. He did not foresee any work in the affected areas in the future at this time.

INTERVIEW RECORD

Site Name: Weldon Spring Site	EPA ID No.: MO6210022830
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Subject: Annual Inspection	Time: 10:15 am	Date: 10/13/11
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Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other	Incoming <input checked="" type="checkbox"/> Outgoing
Location of Visit:	

Contact Made By:

Name: Terri Uhlmeier	Title: Compliance Manager	Organization: SM Stoller, Corp.
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Individual Contacted:

Name: Tom Evers	Title: St. Charles County Area Engineer	Organization: Missouri Department of Transportation
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Telephone No: 636-240-5277	Address: 6780 Old Hwy. N City, State, Zip: St. Charles, Mo 63304
Fax No:	
E-Mail Address:	

Summary Of Conversation

I contacted Tom Evers of the Missouri Department of Transportation. He has replaced Jim Gremaud as the St. Charles County Area Engineer. I explained to Tom that DOE conducts an annual Long-Term Surveillance and Maintenance inspection each year and as part of the inspection we would be contacting certain stakeholders to maintain contact with them and to determine if they had any concerns or issues about the site. I informed Tom that our inspection this year would be on October 25-26. Jim Gremaud had been copied on the 30-day notification and the agenda. I informed him that I had contacted Kevin Wideman and he would be participating in the inspection. I discussed the culverts with Tom and history with MoDOT and that the Hwy D culvert had been removed in coordination with MoDOT. I told him I would email him some information. I emailed him the description of the culverts from the LTS&M Plan and a map of the culverts.

INTERVIEW RECORD

Site Name: Weldon Spring Site		EPA ID No.: MO6210022830	
Subject: Annual Inspection		Time: 10:30 am	Date: 10/18/11
Type: <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> Visit <input type="checkbox"/> Other		Incoming <input checked="" type="checkbox"/> Outgoing	
Location of Visit:			
Contact Made By:			
Name: Terri Uhlmeier		Title: Compliance Manager	Organization: SM Stoller, Corp.
Individual Contacted:			
Name: Tom Blair		Title: Assistant District Engineer	Organization: Missouri Department of Transportation
Telephone No: 314-453-1803		Street Address: 1590 Woodlake Dr.	
Fax No:		City, State, Zip: Chesterfield, Mo 63017	
E-Mail Address:			

Summary Of Conversation

I contacted Tom Blair of the Missouri Department of Transportation. I explained to Tom that as I had told him the past 6 years, DOE conducts an annual Long-Term Surveillance and Maintenance inspection each year and as part of the inspection we would be contacting certain stakeholders to maintain contact with them and to determine if they had any concerns or issues about the site. I informed Mr. Blair that our inspection this year would be on October 25-26. I told him that I had been in contact with Tom Evers, who had taken Jim Grenaud's position and I had sent Tom Evers information regarding the culverts including maps. He stated that Jim is still with MoDOT and that history would still be there. We also discussed the fact that the MoDOT facility next to the site would be closing on November 1 and that MoDOT would be exploring their options for the site and would want to involve DOE.

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