CON 12-15
Doc #22291

Site Name: Magellan Pipeline, Nevada, Iowa

Pre-Remedial Initial Site Screening (ISS)

Project Manager: Jim Kacer

Date: February 19, 2010

Summarize the site history (past usages, past ownerships, wastes, known or suspected contamination pathways such as tanks, septic tank/tile field, lagoon, land applications, S.W. burial, etc)
The site (Figure 1) consists of a release from a petroleum pipeline at Mile Post 26 along 610th Avenue south of Nevada, Iowa. Information provided to the DNR by the environmental consultant for the cleanup states that the site is two miles south of Nevada, but map measurements indicate that it is approximately 5 ¼ miles south of Nevada. The site is located in an agricultural area.

The DNR Contaminated Sites Section (CSS) was provided with a report dated September 4, 2008 that described a release involving a petroleum pipeline. The report had originally been sent to DNR's Emergency Response Unit, and had met their requirements. The responsible party (Magellan Midstream Partners, L.P.) is now requesting review by the CSS to determine if further action is required by this section.

The report noted petroleum odors were detected during pipeline lowering activities and field screening with a photoionization detector (PID) confirmed the presence of contamination. Contaminated soil was excavated and stockpiled, with the PID used to determine when excavation of the contamination was complete. The report did not include information regarding disposition of the contaminated soil.

No active release from the pipeline was identified.

The topographic map indicates that shallow surface water flow is likely toward the southeast, while the excavation report indicates that surface flow in the immediate vicinity of the spill site is toward the north (Figure 2).

Briefly describe the site assessment that was conducted (number of borings, monitoring wells, number of samples, depth of soil samples and monitoring wells, analysis, etc.)
Three soil samples were collected after the excavation had been completed:

- N1, near the north end of the excavation.
- S1, near the south end of the excavation.
- Stock, from contaminated soil stockpile.

The soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), total extractable hydrocarbon (TEH)-diesel, and TEH-waste oil.

In addition, one groundwater sample was collected after the excavation had been completed:

- GW, located near soil sample location S1. This sample consisted of infiltration water collected from a depth of approximately 4 feet below ground surface (BGS), at the depth where soil contamination was first encountered.

The groundwater sample was analyzed for BTEX, TEH-diesel, and TEH-waste oil.

No monitoring wells were installed as part of the investigation.

Summarize the findings and conclusions regarding the contaminants found and their extent and concentrations. Relate those values to known criteria such as statewide standards, MCLs, water quality standards, background levels or other benchmarks used to determine site priority.
Results of soil and groundwater analyses from the excavation report are summarized in the following table.

Table 1
Magellan Pipeline
Soil Analytical Results
Results exceeding statewide standards are listed in shaded cells

	Date	Benzene, mg/kg	Toluene, mg/kg	Ethylbenzene, mg/kg	Xylenes, mg/kg	TEH, Diesel, mg/kg	TEH Waste Oil, mg/kg
Statewide Standard		0.54	42	15	-	3,800	-
Sample							
N1	7/25/2008	0.379	<0.50	1.08	3.10	337	<10
S1	7/25/2008	<0.25	<0.50	<0.50	1.20	537	22.90
Stock (stockpiled soil)	7/25/2008	<0.25	<0.50	<0.50	<0.50	459	<10

Table 2
Magellan Pipeline
Infiltration Water Analytical Results
Results exceeding statewide standards are listed in shaded cells

	Date	Benzene, µg/L	Toluene, µg/L	Ethylbenzene, µg/L	Xylenes, µg/L	TEH, Diesel, µg/L	TEH Waste Oil, µg/L
Statewide Standard/ Actual Groundwater Receptor*		5	1,000	700	10,000	1,200	400
Statewide Standard/ Potential Ground-water Receptor *		290	7,300	3,700	73,000	75,000	40,000
Sample							
GW	7/25/2008	<2.00	<2.00	<2.00	<3.00	83,000	3,050

*567 Iowa Administrative Code, Chapter 135, *Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks*, Tier 1 Look-Up Table.

Identify on-site or off-site potential and actual targets (e.g., municipal wells, private wells, drinking water intakes). What is known of the neighboring area, i.e., are there residences, businesses, public use areas, etc.? Are there utility lines that could be impacted by site contaminants? Identify any other use/location issues that deserve consideration.
As noted above, an excavation report dated September 4, 2008 was provided to DNR for review. No land use information regarding the adjacent areas was provided in the report. By examination of current aerial photographs, it appears that the area surrounding the site is agricultural, with two apparent farmsteads located south of the site between 0.18 and 0.22 mile of the site, and three apparent farmsteads located between ¼ and ½ mile of the site.

One water well was identified within ½ mile of the site in a review of the DNR database:

- Well ID 2113068, total depth of 60 feet bgs, located approximately 1,710 feet north of the site, in the presumed up-gradient direction from the site. The well is classified as an active household and livestock well.

No information was included in the excavation report or readily available DNR records regarding the drinking water sources for the other apparent farmsteads located within ½ mile of the site.

No underground storage tank (UST) sites or leaking UST (LUST) sites were identified within ½ mile of the site.

Rate the site on a scale of 1 to 4, in decreasing order of severity or priority.
3

Summarize the reasoning, knowledge or any other information used in determining your recommendation regarding the priority assigned to this site.
DNR was provided with a report dated September 4, 2008 that described a release involving a petroleum pipeline. Petroleum odors were noted during pipeline lowering activities and field screening with a photoionization detector (PID) confirmed the presence of contamination. Contaminated soil was excavated and stockpiled, with the PID used to determine when excavation of the contamination was complete. The report did not include information regarding disposition of the contaminated soil.

Two soil samples were collected from the excavation and one sample was collected from the contaminated soil stockpile. The soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), total extractable hydrocarbon (TEH)-diesel, and TEH-waste oil. No soil analytes exceeded the statewide standards.

One groundwater sample, consisting of infiltration water, was collected from a depth of approximately 4 feet below ground surface (BGS), at the depth where soil contamination was first encountered. The groundwater sample was analyzed for BTEX, TEH-diesel, and TEH-waste oil. BTEX did not exceed the statewide standard, but TEH-diesel and TEH-waste oil exceeded the DNR standards for both actual and potential groundwater receptors.

The substances released are covered under the exclusion of petroleum from the definition of hazardous substance under CERCLA; therefore, no further action is required under CERCLA. This site is not a candidate for an ESS, and will not be investigated further under State authority.

Form Reviewed: Cal Lundberg **Date Reviewed:** 2/19/10

Figure 1
Magellan Pipeline
Nevada, Iowa

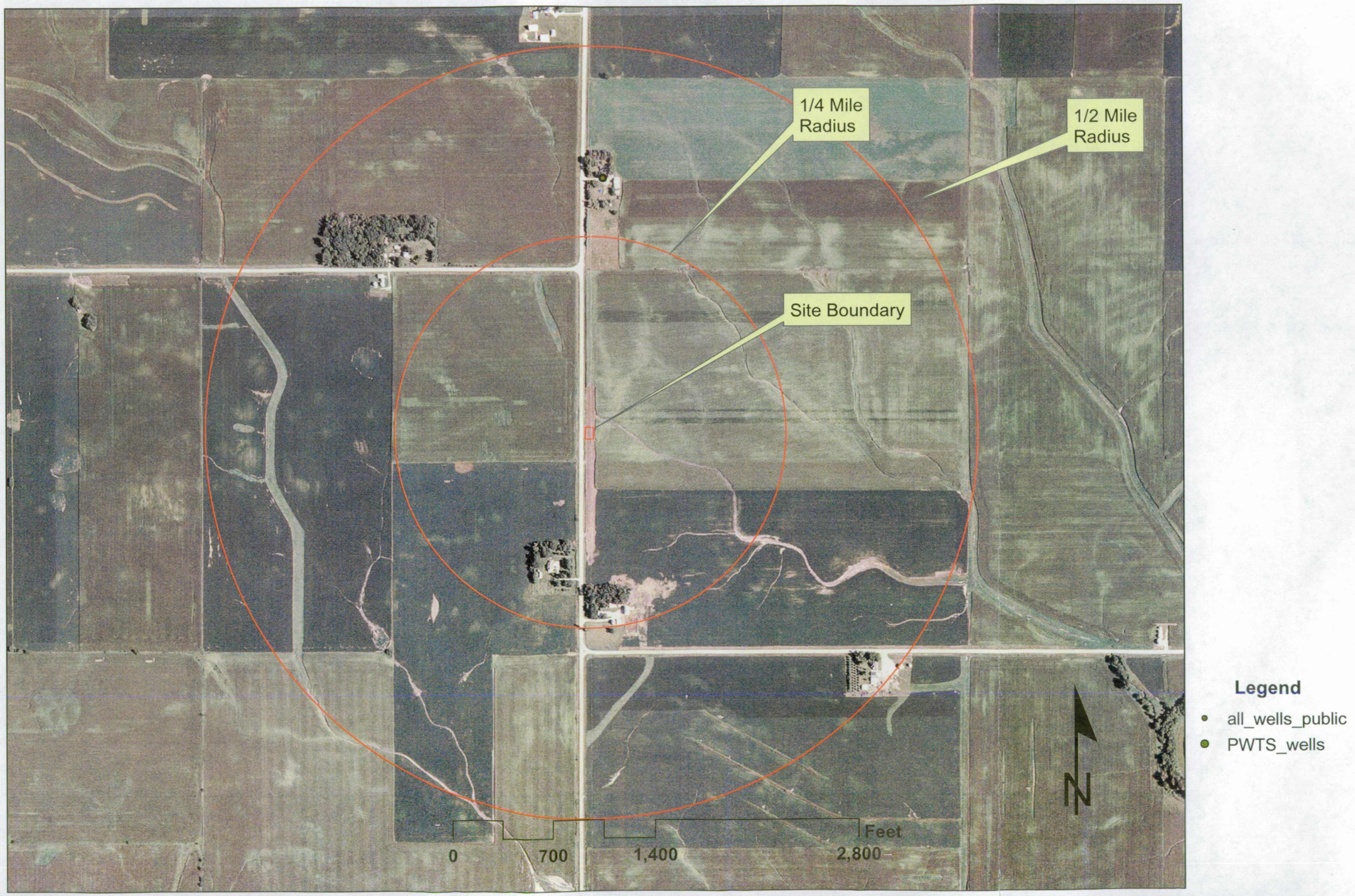
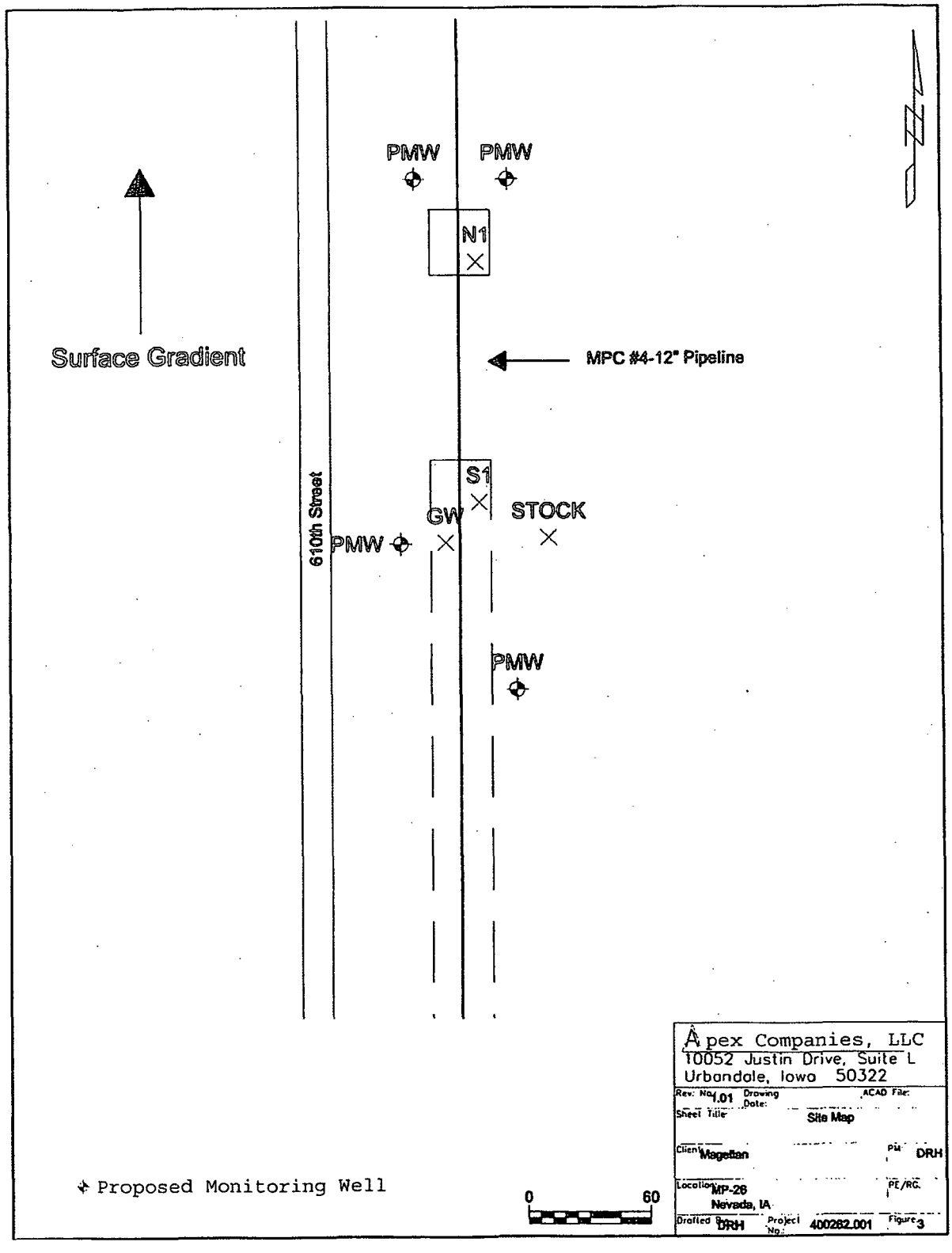


Figure 2 – Sample Locations
Kerber Milling Company, Nevada Iowa



Source: Apex Companies LLC

PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer: Jim Kacer, Environmental Specialist (Name/Title) — 2/17/2010 (Date)
Iowa DNR, Wallace Bldg, Des Moines, IA 50319 (Address) — 515.281.4117 (Phone)
Jim.Kacer@dnr.iowa.gov (E-mail Address)

Site Name: Magellan Pipeline, Nevada, Iowa

Previous Names (if any):

Site Location: Mile Post 26
Nevada (City) — IA (ST) — 50201 (Zip)

Latitude: 41.9325 **Longitude:** -93.482778

Compare the following checklist. If "yes" is marked, please explain below.	YES	NO
1. Does the site already appear in CERCLIS?	☐	☒
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	☐	☒
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	☐	☒
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	☐	☒
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	☐	☒
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	☒	☐
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	☐	☒
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance release have occurred, EPA approved risk assessment completed)?	☐	☒

Please explain all "yes" answer(s), attach additional sheets if necessary:

The release consisted of petroleum products, which are excluded from the definition of "hazardous substance" under CERCLA.

Site Determination:

☐ Enter the site into CERCLIS. Further assessment is recommended (Explain below).

☒ The site is not recommended for placement into CERCLIS (Explain below).

☐ Further assessment is recommended under PRE-CERCLA (Explain below).

DECISION/DISCUSSION/RATIONALE:
DNR was provided with a report dated September 4, 2008 that described a release involving a petroleum pipeline. Petroleum odors were noted during pipeline lowering activities and field screening with a photoionization detector (PID) confirmed the presence of contamination. Contaminated soil was excavated and stockpiled, with the PID used to determine when excavation of the contamination was complete. The report did not include information regarding disposition of the contaminated soil.

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The substances released are covered under the exclusion of petroleum from the definition of hazardous substance under CERCLA; therefore, no further action is required under CERCLA. This site is not a candidate for an ESS, and will not be investigated further under State authority.

Regional EPA Reviewer:

Print Name/Signature _____ Date _____

State Agency/Tribe:

CAL LUNDBERG _____ 2/19/10

Print Name/Signature Date

REGION VII U.S. EPA SUPERFUND
NO DISCOVERY DATE

PRE-CERCLIS INITIATION FORM
NPL Status = O-NOT A VALID SITE OR INCIDENT

Site Name: Magellan Pipeline, Nevada, Iowa **Identified By:** ☐ Removal ☒ Site Assessment ☐ Federal Facilities ☐ States ☐ Other Federal Agency Check if: ☐ FUD Site

Address: Mile Post 26 **County Name:** Story

City, State, Zip: Nevada, Iowa 50201 State ID (if one exists): ____ Congressional District: 4

NPL Status: = : Not a Valid Site or Incident **Federal Facility Indicator:** ☐ Federal Facility ☒ Not a Federal Facility ☐ Status Undetermined

Section: ☐ C-(STAR) SPFD Technical Assistance/Re-Use Branch ☒ L-(EFLR) Enfr/Fund Lead RV Branch ☐ F-(FFSE) Federal Facilities/Special Emphasis Branch ☐ M-(MOKS) MO/KS remedial Branch ☐ I-(IANE) IA/NE Remedial Branch ☐ O-(ER&R) Emergency Response & RV Branch

List Site Alias Name (s): ____

Directions to Site: Turn south from US Highway 30 onto 610th Avenue (approximately one mile west of Nevada), and follow 610th Avenue south approximately 5 1/4 miles. The site is located on the east side of 610th Avenue, approximately midway between 290th Street and 295th Street.

Site Description: Petroleum pipeline.

USGS Quadrant: ____ USGS Hydro Unit: ____

Latitude: 41.9325 **Longitude:** -93.482778
(Decimal Degree format) (with release of 3.17 see attached required location data form)

Lat/Long Accuracy: ☒ Seconds ☐ Miles ☐ Feet ☐ Degrees ☐ Minutes ☐ Kilometers ☐ Meters

Owner Operator Type
- ☐ Bank/Loan Company
- ☐ County Owned
- ☐ District Owned
- ☐ Federally-Owned
- ☐ Former Federally Owned or Operated
- ☐ Former Federally Owned or Operated
- ☐ Government Owned/Contractor Operated
- ☐ Privately Owned/Government Operated
- ☐ Property Defaulted Back to Government
- ☐ Brownfields/Public
- ☐ Municipality
- ☐ Other
- ☒ Private
- ☐ Mixed Ownership
- ☐ State Owned
- ☐ State Owned
- ☐ Trustee, Federal
- ☐ Trustee, State
- ☐ Unknown

Operational Status: ☒ Active ☐ Inactive ☐ Unknown ☐ Blank
Native American Interest: ☐ Yes ☒ No

Non-NPL Status (Choose one):

☐ Not a Valid Site or Incident ☐ Not a Valid Site or Incident: NRC Lead
☐ Not a Valid Site or Incident: RCRA Lead ☒ Not a Valid Site or Incident: State Lead
☐ Not a Valid Site or Incident: Tribal Lead

Add Action: OU 00
PRE-CERCLIS SCREENING: **Planned Complete:** ____/____/____

Actual Complete: ____/____/____

Lead code (choose one)
☐ F-EPA Fund Financed ☐ FF - Federal Facility ☐ S - State, Fund Financed

SCAP Note: _____

Add below Action (if No Further Action):
OU 00 Lead: EP
☐ PRE-CERCLIS ARCHIVE Actual Complete: ____/____/____
SCAP Note: _____
Comments: ☐ Site or ☐ Action: _____

Signatures:
States: _____ Date: 2/19/10 RPM/OSC/SAM: _____ Date __/__/__

Site Type: (Choose all that apply - for every main category chosen in bold at least one sub- category must be selected; if more than one main and sub-category is selected indicate which is primary):

Primary Designation: ____

☐ **MP-Manufacturing/Processing/Maintenance** - *Applicable sub-categories:*
- ☐ CA-Chemicals and allied products
- ☐ CG-Coal gasification
- ☐ CP-Coke production
- ☐ EP-Electric power generation and distribution.
- ☐ FT-Fabrics/textiles
- ☐ EE-Electronic/electrical equipment
- ☐ LW-Lumber and wood products/pulp and paper
- ☐ WP-Lumber and wood products/wood preserving/preserving/treatment
- ☐ MF-Metal fabrication/finishing/coating and allied industries
- ☐ OR-Oil and gas refining
- ☐ OP-Ordnance production
- ☐ PR-Plastics and rubber products
- ☐ PM-Primary metals/mineral processing
- ☐ RA-Radioactive products
- ☐ TA-Tanneries ☐ OT-Other-Description(needed):____
- ☐ TS-Trucks/ships/trains/aircraft and related components

☐ **MI-Mining** - *Applicable sub-categories*
- ☐ CO-Coal ☐ ME-Metals ☐ NM-Non-metal minerals
- ☐ OG-Oil and Gas ☐ OT-Other-Description(needed):____

☐ **WM-Waste Management** - *Applicable sub-categories*
- ☐ CL-Co-disposal landfill (municipal and industrial)
- ☐ ID-Illegal disposal/open dump
- ☐ IF-Industrial waste facility (non-generator)
- ☐ MD-Mine tailings disposal ☐ OT-Other-Desc.(needed):____
- ☐ ML-Municipal solid waste landfill
- ☐ RW-Radioactive waste treatment, storage, disposal (non-generator)

☒ **OT-Other** - *Applicable sub-categories*
- ☐ AG-Agricultural (e/g.,grain elevator)
- ☐ CS-Contaminated sediment site with no identifiable source
- ☐ DC-Dust control ☐ OT-Other-Desc (needed):____
- ☐ GP-Ground water plume site with no identifiable source
- ☐ MO-Military/Other Ordinance
- ☐ PS-Product Storage/distribution
- ☐ RD-Research,development,and testing facility
- ☐ RC-Retail/commercial
- ☒ SE-Spill or other one-time event
- ☐ TP-Transportation (e.g., railroad yards, airport, barge docking, site)
- ☐ TW-Treatment works/septic tanks/other sewage treatment

☐ **RE-Recycling** - *Applicable sub-categories*
- ☐ AT-Automobiles/tires ☐ DT-Drums/tanks ☐ WO-Waste/used
- ☐ BS-Batteries/scrap metals/secondary smelting/precious metal recovery
- ☐ CC-Chemicals/chemical waste (e.g., solvent recovery)
- ☐ OT-Other-Description(needed):____

Updated by The Newberry Group/Last Update: 01/08/2008

(NOTE: Data analysts will send form to records center after data entry and QA.)

Updated by Systems Research Group
03MAR06

REGION VII
U.S. ENVIRONMENTAL PROTECTION AGENCY

ENFORCEMENT SENSITIVE INFORMATION
FOR INTERNAL USE ONLY

LOCATION FORM - *(Required information highlighted in red)*

SITE NAME: Magellan Pipeline, Nevada, Iowa **EPA ID:** ____

Latitude: 41.9325 **Longitude:** -93.482778 **Measurement Sequence:** _____
(Decimal Decree format) (See Comment A)

Lat/Long Source:
- ☐ Contractor
- ☐ Dun & Bradstreet
- ☐ EPA Region 7
- ☐ Geograph
- ☐ Other Federal Agency
- ☐ Regulated Entity
- ☐ State
- ☐ EPA Headquarters
- ☐ Epic
- ☒ Other: USGS National Map Viewer
- ☐ Private
- ☐ SNAP
- ☐ Tribe
- ☐ Unknown
- ☐ (Blank)

Designate Lat/Long: ☒ Primary ☐ NPL Coordinate

Collection Method:
- ☐ Address Matching -House Number
- ☐ Address Matching - Block Face
- ☐ Address Matching - Street Centerline
- ☐ Address Matching -Nearest Intersection
- ☐ Address Matching - Primary Name
- ☐ Address Matching - Digitized
- ☐ Address Matching - Other
- ☐ Census Block - 1990 - Centroid
- ☐ Census Block/Group 1990-Centroid
- ☐ Census Block/Tract - 1990 - Centroid
- ☐ Classical Surveying Techniques
- ☐ Census - Other
- ☐ GPS Carrier Phase Static Relative Position
- ☐ GPS Carrier Phase Kinematic Relative Position
- ☐ GPS, with Canadian Active Control System
- ☐ GPS Code (Pseudo Range) Differential
- ☐ GPS Code (Pseudo Range) Precise Position
- ☐ GPS Code (Pseudo Range) Standard Position (SA-Off)
- ☐ GPS Code (Pseudo Range) Standard Position Service SA-On
- ☐ GPS-Unspecified
- ☐ Interpolation-Digital Map Source (TIGER)
- ☐ Interpolation-Map
- ☐ Interpolation -MSS
- ☒ Interpolation -Photo
- ☐ Interpolation – Satellite
- ☐ Interpolation - SPOT
- ☐ Interpolation-TM
- ☐ Interpolation - Other
- ☐ LORAN C
- ☐ Public Land Survey-Eighth Section
- ☐ Public Land Survey-Footing
- ☐ Public Land Survey-Quarter Section
- ☐ Public Land Survey-Section
- ☐ Public Land Survey-Sixteenth Section
- ☐ ZIP+2 Centroid
- ☐ ZIP+4 Centroid
- ☐ ZIP Code - Centroid
- ☐ Unknown

Reference Point:
- ☐ Administrative Building
- ☐ Air Monitoring Station
- ☐ Air Release Stack
- ☐ Air Release Vent
- ☐ Atmos. Emissions Trtmnt Unit
- ☐ Boundary Point
- ☐ Building Entrance
- ☒ Facility/Centroid Cent
- ☐ Facility/Station Bldg Entrance
- ☐ Intake Point
- ☐ Lagoon or Settling Pond
- ☐ Liquid Waste Treatment Unit
- ☐ Loading Area Centroid
- ☐ Loading Facility
- ☐ Monitoring Point
- ☐ NE Corner of Land Parcel
- ☐ NW Corner of Land Parcel
- ☐ Other
- ☐ Plant Entrance (Freight)
- ☐ Plant Entrance (General)
- ☐ Plant Entrance (Personnel)
- ☐ Process Unit Area Centroid
- ☐ Process Unit
- ☐ SE Corner of Land Parcel
- ☐ Solid Waste Storage Area
- ☐ Solid Waste Trtmnt/Disp. Unit
- ☐ Storage Tank
- ☐ SW Corner of Land Parcel
- ☐ Unknown
- ☐ Water Monitoring Station
- ☐ Water Release Pipe
- ☐ Well
- ☐ Well Protection Area
- ☐ Release Point
- ☐ Treatment/Storage Plant

Reference Datum: ☐ NAD27 ☐ NAD83 ☐ Other ☒ Unknown ☐ WGS84

Accuracy Meters +/-: _____ ☒ **Accuracy Unknown** **Collection Date:** ____/____/____

Verification Method:
- ☐ Ground Truth Conducted
- ☐ Point in Polygon (Zip)
- ☐ Proximity to Polygon Centroid(Other)
- ☐ Verified Relative to Map Features (1:100K/Tiger)
- ☐ Verified Relative to Map Features (Other)
- ☐ Proximity to Polygon Centroid (County)
- ☐ Point In Polygon (County)
- ☐ Proximity to Alternative Facility Coordinate)
- ☐ Proximity to Polygon Centroid (Zip Code)
- ☒ Verified Relative to Map Features (1:24K)
- ☐ Verified, Unknown Method
- ☐ Point in Polygon (Other)
- ☐ Blank
- ☐ Not Verified

Point/ Line/ Area: ☐ AREA ☐ LINE ☒ POINT ☐ REGION ☐ ROUTE ☐ (BLANK)

Source Map Scale: ☐ 1:10,000 ☐ 1:12,000 ☐ 1:15,840 ☐ 1;20,000 ☒ 1:24,000 ☐ 1:25,000 ☐ 1:50,000 ☐ 1:62,500 ☐ 1:63,360 ☐ 1:100,000 ☐ 1:125,000 ☐ 1:250,000 ☐ 1:500,000 ☐ NONE ☐ UNKNOWN ☐ OTHER_____

COMMENTS:_____

Signatures:

RPM/OSC: _____ **Date:** ___/___/___ **BRANCH CHIEF:** _____ **Date:** ___/___/___

A) A sequential number to indicate the order in which points on a line or area are connected. For an area, the maximum point is connected to the first. Required if the feature is polygonal or linear 3 numeric.
