GW - ___028___

MEETINGS

NAVAJO REFINING COMPANY/FRONTIER MEETING

OCD GW-028; AP-110 and UICI-8-0 WDW-3 Informal Meeting

Date & Time: 10/9/2012 (1:30 - 2:30 p.m.)

Location: OCD Conference Room (3rd Floor) Wendell Chino Building, Santa Fe, New Mexico

NAME:	AGENCY/COMPANY	PHONE	E-MAIL
Carl J. Chavez	OCD	505-476-3490	Carl j. chavez@state.nm.us
Mike Holder	NRC	575-746-5478	mike.holder@hollyfrontier.com
Robert Combs	NRC	575-746-5382	robert.combs@hollyfrontier.com

Chavez, Carl J, EMNRD

Subject:	Navajo Refinery Informal Meeting
Location:	OCD 3rd Floor Conference Room
Start:	Tue 10/9/2012 1:30 PM
End:	Tue 10/9/2012 2:30 PM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Chavez, Carl J, EMNRD
Required Attendees:	Holder, Mike (Mike.Holder@hollyfrontier.com); Combs, Robert (Robert.Combs@hollyfrontier.com); VonGonten, Glenn, EMNRD; CarlJ.Chavez@state.nm.us; Sanchez, Daniel J., EMNRD

Mike Holder and Robert Combs are attending meetings in Santa Fe on October 8 – 9, 2012 and would like to meet OCD Staff and associate faces with verbal phone calls. Also, to informally communicate with the OCD about their facilities and any updates.

Informal Agenda:

Introductions (Mike Holder- replacement for Johnny Lackey after the New Year and Robert Combs- replacement for Darrel Moore)

GW-028 Navajo Artesia Refinery Update

AP-110 Navajo Lovington Refinery Update

WDW-3 UIC- Class I (NH) Discharge Permit Renewal Update

Miscellaneous

Chavez, Carl J, EMNRD

Subject: Artesia Refinery Meeting
Location: Energy, Minerals & Natural Resources Department- Mining & Minerals Division Conference Room 3rd Floor Across from OCD (Wendell Chino Bldg.) 1220 South St. Francis Drive, Santa Fe NM 87505

Start: Tue 4/24/2012 1:30 PM
End: Tue 4/24/2012 3:30 PM

Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: Chavez, Carl J, EMNRD
Required Attendees: Bailey, Jami, EMNRD; Brancard, Bill, EMNRD; Sanchez, Daniel J., EMNRD; Swazo, Sonny, EMNRD; VonGonten, Glenn, EMNRD; McKee, Michael; Whatley, Michael; Louis W. Rose

Dear Sir or Madam:

This is a proposed meeting date and time. Please contact me if your schedule conflicts and you wish to attend so the date and time may be revised. Also, let OCD know if you will be bringing a power point presentation, jumper drive that is compatible with OCD Software to display exhibits, etc.

The meeting is to discuss the message below and any other proposed agenda items in advance of the meeting. The attendees should develop a "path forward" toward the end of the meeting.

Please contact me if you have questions or request a difference date and time for the meeting. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/
"Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at: http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental)

****

From: Lackey, Johnny [mailto:Johnny.Lackey@hollyfrontier.com]
Sent: Thursday, April 05, 2012 4:22 PM
To: Chavez, Carl J, EMNRD
Cc: VonGonten, Glenn, EMNRD; Bailey, Jami, EMNRD; McKee, Michael; Whatley, Michael; Meeks, Jimmy; Louis W. Rose; Combs, Robert; Schultz, Michele
Subject: NAVAJO DISCHARGE PERMIT (GW-028)

Carl.

Navajo is reviewing the Artesia Refinery Discharge Permit Renewal (GW-028) sent to us by Director Bailey and received on February 24, 2012. Based on our initial review, Navajo is concerned that the requirement in Section 2.H.1 for submittal of a remediation/abatement plan with a project schedule to address the RO reject water is unsupported by the

groundwater quality data from the discharge site. Without further explanation, Navajo is reluctant to agree to such a potentially complex and costly undertaking.

Additionally, Navajo has retained a third party engineering and construction firm to prepare a work plan and time frame to meet the requirement found in Section 2.H.1 of the permit for the cessation of discharging the RO Reject to the environment without the specified treatment. The RO Reject discharge will be one phase of an overall integrated waste water treatment project to be completed in three phases to improve waste water quality at the refinery. The RO Reject stream represents a 60% increase in total refinery effluent water flow. Currently neither the Navajo WWTP nor effluent discharge systems have sufficient capacity for this added flow. Therefore an overall integrated refinery water utilization and waste water treatment plan must be developed. To accomplish the removal of the RO Reject from land application will require complete reconfiguration of water management refinery wide.

Navajo has additional concerns about the permit and would like to meet with OCD to discuss those concerns before agreeing to the permit terms. Please let me know when the OCD would be available to discuss these matters further.

Thanks for your consideration,

Johnny Lackey
Sr. Environmental Manager
The HollyFrontier Companies
P.O. Box 159
501 E. Main St.
Artesia, NM 88211-0159
Office - 575-746-5490
Cell - 972-261-8075
Fax - 575-746-5451
Johnny.Lackey@hollyfrontier.com

(3) Abatement of water pollution resulting from the withdrawal and decontamination or blending of polluted water for use as a public or private drinking-water supply, by any person other than a responsible person, unless the secretary determines that a hazard to public health may result; and

(4) Reasonable operation and maintenance of irrigation and flood control facilities.

[12-1-95; 20.6.2.4105 NMAC - Rn, 20 NMAC 6.2.IV.4105, 1-15-01; A, 10/15/03]

20.6.2.4106 ABATEMENT PLAN PROPOSAL:

A. Except as provided for in Section 20.6.2.4105 NMAC, a responsible person shall, within sixty (60) days of receipt of written notice from the secretary that an abatement plan is required, submit an abatement plan proposal to the secretary for approval. For good cause shown, the secretary may allow for a total of one hundred and twenty (120) days to prepare and submit the abatement plan proposal.

B. Voluntary Abatement:

(1) Any person wishing to abate water pollution in excess of the standards and requirements set forth in Section 20.6.2.4103 NMAC may submit a Stage 1 abatement plan proposal to the secretary for approval. Following approval by the secretary of a final site investigation report prepared pursuant to Stage 1 of an abatement plan, any person may submit a Stage 2 abatement plan proposal to the secretary for approval.

(2) Following approval of a Stage 1 or Stage 2 abatement plan proposal under Paragraph (1) of Subsection B of this Section, the person submitting the approved plan shall be a responsible person under Sections 20.6.2.4000 through 20.6.2.4115 NMAC for the purpose of performing the approved Stage 1 or Stage 2 abatement plan. Nothing in this Section shall preclude the secretary from applying Paragraph (9) of Subsection A of Section 20.6.2.1203 NMAC to a responsible person if applicable.

C. Stage 1 Abatement Plan: The purpose of Stage 1 of the abatement plan shall be to design and conduct a site investigation that will adequately define site conditions, and provide the data necessary to select and design an effective abatement option. Stage 1 of the abatement plan may include, but not necessarily be limited to, the following information depending on the media affected, and as needed to select and implement an expeditious abatement option:

(1) Descriptions of the site, including a site map, and of site history including the nature of the discharge that caused the water pollution, and a summary of previous investigations;

(2) Site investigation workplan to define:

(a) site geology and hydrogeology, the vertical and horizontal extent and magnitude of vadose-zone and ground-water contamination, subsurface hydraulic parameters including hydraulic conductivity, transmissivity, storativity, and rate and direction of contaminant migration, inventory of water wells inside and within one (1) mile from the perimeter of the three-dimensional body where the standards set forth in Subsection B of Section 20.6.2.4103 NMAC are exceeded, and location and number of such wells actually or potentially affected by the pollution; and

(b) surface-water hydrology, seasonal stream flow characteristics, ground-water/surface-water relationships, the vertical and horizontal extent and magnitude of contamination and impacts to surface water and stream sediments. The magnitude of contamination and impacts on surface water may be, in part, defined by conducting a biological assessment of fish, benthic macroinvertebrates and other wildlife populations. Seasonal variations should be accounted for when conducting these assessments.

(3) Monitoring program, including sampling stations and frequencies, for the duration of the abatement plan that may be modified, after approval by the secretary, as additional sampling stations are created;

(4) Quality assurance plan, consistent with the sampling and analytical techniques listed in Subsection B of Section 20.6.2.3107 NMAC and with Section 20.6.4.10 NMAC of the Water Quality Standards for Interstate and Intrastate Streams in New Mexico (20.6.4 NMAC), for all work to be conducted pursuant to the abatement plan;

(5) Site health and safety plan for all work to be performed pursuant to the abatement plan;

(6) A schedule for all Stage 1 abatement plan activities, including the submission of summary quarterly progress reports, and the submission, for approval by the secretary, of a detailed final site investigation report; and

(7) Any additional information that may be required to design and perform an adequate site investigation.

D. Stage 2 Abatement Plan: Any responsible person shall submit a Stage 2 abatement plan proposal to the secretary for approval within sixty (60) days, or up to one hundred and twenty (120) days for good cause shown, after approval by the secretary of the final site investigation report prepared pursuant to Stage 1 of the abatement plan.

E. The purpose of Stage 2 of the abatement plan shall be to select and design, if necessary, an abatement option that, when implemented, will result in attainment of the abatement standards and requirements set forth in Section 20.6.2.4103 NMAC, including post-closure maintenance activities. Stage 2 of the abatement plan should include, at a minimum, the following information:

(1) Brief description of the current situation at the site;

(2) Development and assessment of abatement options;

(3) Description, justification and design, if necessary, of preferred abatement option;

(4) Modification, if necessary, of the monitoring program approved pursuant to Stage 1 of the abatement plan, including the designation of pre and post abatement-completion sampling stations and sampling frequencies to be used to demonstrate compliance with the standards and requirements set forth in Section 20.6.2.4103 NMAC;

(5) Site maintenance activities, if needed, proposed to be performed after termination of abatement activities;

(6) A schedule for the duration of abatement activities, including the submission of summary quarterly progress reports;

(7) A public notification proposal designed to satisfy the requirements of Subsections B and C of Sections 20.6.2.4108 and 20.6.2.4108 NMAC; and

(8) Any additional information that may be reasonably required to select, describe, justify and design an effective abatement option.

[12-1-95; 20.6.2.4106 NMAC - Rn, 20 NMAC 6.2.IV.4106, 1-15-01]

20.6.2.4107 OTHER REQUIREMENTS:

A. Any responsible person shall allow any authorized representative of the secretary to:

(1) upon presentation of proper credentials, enter the facility at reasonable times;

(2) inspect and copy records required by an abatement plan;

(3) inspect any treatment works, monitoring and analytical equipment;

(4) sample any wastes, ground water, surface water, stream sediment, plants, animals, or vadose-zone material including vadose-zone vapor;

(5) use monitoring systems and wells under such responsible person's control in order to collect samples of any media listed in Paragraph (4) of Subsection A of this section; and

(6) gain access to off-site property not owned or controlled by such responsible person, but accessible to such responsible person through a third-party access agreement, provided that it is allowed by the agreement.

B. Any responsible person shall provide the secretary, or a representative of the secretary, with at least four (4) working days advance notice of any sampling to be performed pursuant to an abatement plan, or any well plugging, abandonment or destruction at any facility where an abatement plan has been required.

C. Any responsible person wishing to plug, abandon or destroy a monitoring or water supply well within the perimeter of the 3-dimensional body where the standards set forth in Subsection B of Section 20.6.2.4103 NMAC are exceeded, at any facility where an abatement plan has been required, shall propose such action by certified mail to the secretary for approval, unless such approval is required from the State Engineer. The proposed action shall be designed to prevent water pollution that could result from water contaminants migrating through the well or borehole. The proposed action shall not take place without written approval from the secretary, unless written approval or disapproval is not received by the responsible person within thirty (30) days of the date of receipt of the proposal.

[12-1-95; 20.6.2.4107 NMAC - Rn, 20 NMAC 6.2.IV.4107, 1-15-01]

20.6.2.4108 PUBLIC NOTICE AND PARTICIPATION:

A. Within thirty (30) days of filing of a Stage 1 abatement plan proposal, the secretary shall issue a news release summarizing:

(1) the source, extent, magnitude and significance of water pollution, as known at that time;

(2) the proposed Stage 1 abatement plan investigation; and

(3) the name and telephone number of an agency contact who can provide additional information.

B. Within thirty (30) days of filing of a Stage 2 abatement plan proposal, or proposed significant modification of Stage 2 of the abatement plan, any responsible person shall provide to the secretary proof of public notice of the abatement plan to the following persons:

(1) the public, who shall be notified through publication of a notice in newspapers of general circulation in this state and in the county where the abatement will occur and, in areas with large percentages of non-

E. The purpose of Stage 2 of the abatement plan shall be to select and design, if necessary, an abatement option that, when implemented, will result in attainment of the abatement standards and requirements set forth in Section 20.6.2.4103 NMAC, including post-closure maintenance activities. Stage 2 of the abatement plan should include, at a minimum, the following information:

(1) Brief description of the current situation at the site;

(2) Development and assessment of abatement options;

(3) Description, justification and design, if necessary, of preferred abatement option;

(4) Modification, if necessary, of the monitoring program approved pursuant to Stage 1 of the abatement plan, including the designation of pre and post abatement-completion sampling stations and sampling frequencies to be used to demonstrate compliance with the standards and requirements set forth in Section 20.6.2.4103 NMAC;

(5) Site maintenance activities, if needed, proposed to be performed after termination of abatement activities;

(6) A schedule for the duration of abatement activities, including the submission of summary quarterly progress reports;

(7) A public notification proposal designed to satisfy the requirements of Subsections B and C of Sections 20.6.2.4108 and 20.6.2.4108 NMAC; and

(8) Any additional information that may be reasonably required to select, describe, justify and design an effective abatement option.

[12-1-95; 20.6.2.4106 NMAC - Rn, 20 NMAC 6.2.IV.4106, 1-15-01]

20.6.2.4107 OTHER REQUIREMENTS:

A. Any responsible person shall allow any authorized representative of the secretary to:

(1) upon presentation of proper credentials, enter the facility at reasonable times;

(2) inspect and copy records required by an abatement plan;

(3) inspect any treatment works, monitoring and analytical equipment;

(4) sample any wastes, ground water, surface water, stream sediment, plants, animals, or vadose-zone material including vadose-zone vapor;

(5) use monitoring systems and wells under such responsible person's control in order to collect samples of any media listed in Paragraph (4) of Subsection A of this section; and

(6) gain access to off-site property not owned or controlled by such responsible person, but accessible to such responsible person through a third-party access agreement, provided that it is allowed by the agreement.

B. Any responsible person shall provide the secretary, or a representative of the secretary, with at least four (4) working days advance notice of any sampling to be performed pursuant to an abatement plan, or any well plugging, abandonment or destruction at any facility where an abatement plan has been required.

C. Any responsible person wishing to plug, abandon or destroy a monitoring or water supply well within the perimeter of the 3-dimensional body where the standards set forth in Subsection B of Section 20.6.2.4103 NMAC are exceeded, at any facility where an abatement plan has been required, shall propose such action by certified mail to the secretary for approval, unless such approval is required from the State Engineer. The proposed action shall be designed to prevent water pollution that could result from water contaminants migrating through the well or borehole. The proposed action shall not take place without written approval from the secretary, unless written approval or disapproval is not received by the responsible person within thirty (30) days of the date of receipt of the proposal.

[12-1-95; 20.6.2.4107 NMAC - Rn, 20 NMAC 6.2.IV.4107, 1-15-01]

20.6.2.4108 PUBLIC NOTICE AND PARTICIPATION:

A. Within thirty (30) days of filing of a Stage 1 abatement plan proposal, the secretary shall issue a news release summarizing:

(1) the source, extent, magnitude and significance of water pollution, as known at that time;

(2) the proposed Stage 1 abatement plan investigation; and

(3) the name and telephone number of an agency contact who can provide additional information.

B. Within thirty (30) days of filing of a Stage 2 abatement plan proposal, or proposed significant modification of Stage 2 of the abatement plan, any responsible person shall provide to the secretary proof of public notice of the abatement plan to the following persons:

(1) the public, who shall be notified through publication of a notice in newspapers of general circulation in this state and in the county where the abatement will occur and, in areas with large percentages of non-

English speaking people, through the mailing of the public notice in English to a bilingual radio station serving the area where the abatement will occur with a request that it be aired as a public service announcement in the predominant non-English language of the area;

(2) those persons, as identified by the secretary, who have requested notification, who shall be notified by mail;

(3) the New Mexico Trustee for Natural Resources, and any other local, state or federal governmental agency affected, as identified by the secretary, which shall be notified by certified mail;

(4) owners and residents of surface property located inside, and within one (1) mile from, the perimeter of the geographic area where the standards and requirements set forth in Section 20.6.2.4103 NMAC are exceeded who shall be notified by a means approved by the secretary; and

(5) the Governor or President of each Indian Tribe, Pueblo or Nation within the state of New Mexico, as identified by the secretary, who shall be notified by mail.

C. The public notice shall include, as approved in advance by the secretary:

(1) name and address of the responsible person;

(2) location of the proposed abatement;

(3) brief description of the nature of the water pollution and of the proposed abatement action;

(4) brief description of the procedures followed by the secretary in making a final determination;

(5) statement on the comment period;

(6) statement that a copy of the abatement plan can be viewed by the public at the department's main office or at the department field office for the area in which the discharge occurred;

(7) statement that written comments on the abatement plan, and requests for a public meeting or hearing that include the reasons why a meeting or hearing should be held, will be accepted for consideration if sent to the secretary within sixty (60) days after the determination of administrative completeness; and

(8) address and phone number at which interested persons may obtain further information.

D. A public meeting or hearing may be held if the secretary determines there is significant public interest. Notice of the time and place of the meeting or hearing shall be given at least thirty (30) days prior to the meeting or hearing pursuant to Subsections A and B above. The secretary may appoint a meeting facilitator or hearing officer. The secretary may require the responsible person to prepare for approval by the secretary a fact sheet, to be distributed at the public meeting or hearing and afterwards upon request, written in English and Spanish, describing site history, the nature and extent of water pollution, and the proposed abatement. The record of the meeting or hearing, requested under this Section, consists of a tape recorded or transcribed session, provided that the cost of a court recorder shall be paid by the person requesting the transcript. If requested by the secretary, the responsible person will provide a translator approved by the secretary at a public meeting or hearing conducted in a locale where testimony from non-English speaking people can reasonably be expected. At the meeting or hearing, all interested persons shall be given a reasonable chance to submit data, views or arguments orally or in writing, and to ask questions of the secretary or the secretary's designee and of the responsible person, or their authorized representatives.

[12-1-95; 20.6.2.4108 NMAC - Rn, 20 NMAC 6.2.IV.4108, 1-15-01]

20.6.2.4109 SECRETARY APPROVAL OR NOTICE OF DEFICIENCY OF SUBMITTALS:

A. The secretary shall, within sixty (60) days of receiving a Stage 1 abatement plan proposal, a site investigation report, a technical infeasibility demonstration, or an abatement completion report, approve the document, or notify the responsible person of the document's deficiency, based upon the information available.

B. The secretary shall, within thirty (30) days of receiving a fact sheet, approve or notify the responsible person of the document's deficiency, based upon the information available.

C. If no public meeting or hearing is held pursuant to Subsection D of Section 20.6.2.4108 NMAC, then the secretary shall, within ninety (90) days of receiving a Stage 2 abatement plan proposal, approve the plan, or notify the responsible person of the plan's deficiency, based upon the information available.

D. If a public meeting or hearing is held pursuant to Subsection D of Section 20.6.2.4108, then the secretary shall, within sixty (60) days of receipt of all required information, approve Stage 2 of the abatement plan proposal, or notify the responsible person of the plan's deficiency, based upon the information contained in the plan and information submitted at the meeting or hearing.

E. If the secretary notifies a responsible person of any deficiencies in a site investigation report, or in a Stage 1 or Stage 2 abatement plan proposal, the responsible person shall submit a modified document to cure the deficiencies specified by the secretary within thirty (30) days of receipt of the notice of deficiency. The responsible person shall be in violation of Sections 20.6.2.4000 through 20.6.2.4115 NMAC if he fails to submit a modified

ARTESIA REFINERY

OCD GW-028 DISCHARGE PERMIT MEETING

Date & Time: 4/24/2012 (1:30 - 3:30 p.m.)

Location: Mining & Minerals Division Conference Room (3rd Floor) Wendell Chino Building, Santa Fe, New Mexico

NAME:	AGENCY/COMPANY	PHONE	E-MAIL
Carl Chavez	NMOCD	505-476-3490	Carl.j.Chavez@state.nm.us
Daniel Sanchez	NMOCD	505-476-3493	daniel.sanchez@state.nm.us
Sonny Swazo	OCD	505-476-3463	Sonny.Swazo@state.nm.us
Bill Brancard	EMNRD	505.476.3210	bill.brancard@state.nm.us
Louis Rose	Navajo/M+A	505-486-2506	Lrose@montand.com
Johnny Lackey	Navajo	575-746-5490	johnny.lackey@hollyfrontier.com
Michael McKee	Navajo	575 746-5361	Michael.McKee@Hollyfrontier.com
Jami Bailey	NMOCD	505-476-3460	JAMI.BAILEY@STATE.NM.US
Michael Whatley	Holly Frontier	307-771-8755	michael.whatley@hollyfrontier.com

Chavez, Carl J, EMNRD

Subject: FW: OCD/NMED Mtg
Location: Santa Fe

Start: Tue 5/31/2011 10:00 AM
End: Tue 5/31/2011 12:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Lackey, Johnny

Johnny Lackey, et al.:

Re: Today's Meeting Summary

The New Mexico Oil Conservation Division (OCD) would like to thank the Navajo Refining Company and New Mexico Environment Department for participating in the meeting this morning. OCD Director Bailey was pleased to be able to meet you and requested a briefing of the meeting.

I'm writing to provide a basic summary and/or briefing of the meeting based on the agenda (see below) and other items that were discussed based on our communication this morning.

Agenda

A. Recovery System Upgrade

1. Project Scope
2. Drawings
3. Completion Schedule

B. Underground Line Testing

1. Status
2. Percentage Tested in 2010 (Lovington & Artesia)
3. Praxair Methods
    a. Long Range Guided Wave Ultrasonic Pipe Screening
    b. Tracer Tight Pipeline Testing
    c. Navajo Requests OCD approval to utilize both methods for Underground line testing in lieu of hydrotesting.

C. Injection Wells Fall Off Test Requirements (Any decision on one well per year?)

1. One well per year
2. All 3 wells inject into the same formation
3. View graph

Agenda Briefing:

A) Recovery System Upgrade:

OCD responded to the phase separated hydrocarbon recovery system report in March of 2011. The only changes to the original report were: Double walled tanks will be singled walled an set into fiberglass tubs for secondary containment. OCD requested to know if there were other changes from the original report that was reviewed by the OCD and NMED? The June 2011 deadline for completion of Phase I was moved back to December 15, 2011.

OCD requested that Navajo Engineers review the pipeline specs submitted by the consultant to ensure that lines (similar to last design that failed) are of proper size to allow pumps to operate efficiently etc. Also, Navajo indicated that the lines would be accessible during clean-outs when scale blocks flow and is required to be removed to maintain flow rates over time.

Issue: 24 hr. shut-down notification issues when system shut-down due to weather conditions and/or when product recovery wells automatically shut-off due to lack of product of specified thickness. Also, there may be periods of no flow even though the OCD expects flow to occur 24/7 for 365 days per year. There may be segments of the recovery system that go down periodically for more than 24 hours and/or the system may be shut-in due to weather conditions. The tanks are not insulated. OCD requires notification when the above occurs, and if the agencies notice the system is ineffective by the quarterly or annual reporting requirements, then corrective actions to the system must be undertaken. Thus, free-phase recovery well analysis will not be needed at each recovery well location with product.

Recent MW-94 product discovery in well shall be included in Phase I.

NMED and OCD were ok with Navajo moving forward with its Phase I, II and III Plans.

B) Underground Line Testing:

The 14 pipelines that are considered arteries to the refining process and would result in shutting-down units within the refinery to MIT the lines with water must be submitted to the OCD with identification and corresponding units. The refinery would like to use the Prax-Air Tracer Test and Ultrasonic Wave Technology on buried metal lines to identify corrosion spots within the line per Prax-Air QA/QC wall thickness methods and will conserve on water use at the facility. OCD will address this request upon receipt of the line information and communicate with Navajo on an acceptable approach to monitoring and replacement of identified corroded lines in the process. The benefit of the process is that all 14 lines could be tested at one time and during the Prax-Air Tracer Method for the above ground tank leak detection method.

C) Injection Well/Fall-Off Tests (FOTs):

1) OCD requests a Certified PE down-hole analysis from the recent 2010 Fall-Off Tests that supports Navajo's request for reduced FOTing on wells on wells seated in the same injection zone and that are shown to be connected by pressure differentials of offset Class I Wells during the FOT. By Federal Law, all UIC Class I Wells must undergo a FOT.annually. WDWs 2 and 3 are within ½ mile of each other, but are over a mile away from WDW-1. OCD noticed that no professional analysis of the bottom-hole pressure data from off-set UIC Class I Wells was provided in the FOT reports for WDWs 1, 2 and 3. Navajo indicated that their down-hole consultant should have an analysis prepared and submitted to the OCD by June 30th or early July 2011.

2) OCD requested that a Certified PE provide an opinion on the variable annulus pressure observed in WDWs 1, 2 and 3 to determine why annulus pressure is oscillating in the wells. Navajo indicated that instrument calibrations and pump stabilizations have been undertaken to prevent the fluctuating annulus pressure from occurring in the wells. Also, Navajo noted that during MITs on the wells, they passed and bradenhead tests were also performed that passed. OCD indicated that the 30 min. MIT is a snap shot in time of well's MIT and that the oscillating annulus pressures should not be occurring, but that an expert opinion or analysis was needed for the OCD and EPA to consider based on the phenomena. Navajo will have a signed certified PE analysis with an opinion to the OCD by COB on 6/10/2011.

Miscellaneous:

The OCD requested a new pipeline MIT procedure and report format for the new fiberglass effluent line from the refinery to the 2 UIC Class I (Non-Hazardous) disposal wells east of the refinery. The OCD received the recent MIT charts, but a procedure and report format with conclusions was not submitted for review by the OCD. Therefore, similar to past pipeline MIT reports from Navajo Refining Company's Consultant, the OCD needs to receive a report that summarizes the process with diagrams with any conclusions by the third-party consultant to ensure that an independent expert certifies that the MIT passed the test. Please submit the new procedure with report outline to the OCD by September 1, 2011.

The RO Reject effluent allowed for good cause by the OCD in the past is in questions based on recent annual reporting of the quality of the effluent. OCD noted from the annual report that Iron and Sulfates were exceeding 20.6.2 NMAC. Why did OCD allow the discharge onto the farm fields? OCD believes the data may have warranted the discharge at the time, but recent sampling indicates exceedances that violate the discharge permit. NMED is reviewing the recent Annual Report and will work with OCD on the response letter to give Navajo some guidance going forward to assess any impacts to ground water, etc. Navajo is looking into any process change that may have elevated the sulfate in the reject water and

also to discuss routing the farmland discharge (~ 8000 bbl/day) to the Artesia WWTP where the water could be treated and reused, but at a cost to the refinery.

NMED is expecting Work Plan in July of 2011 regarding the

End **********

-----Original Appointment-----
From: Lackey, Johnny
Sent: Wednesday, May 25, 2011 5:38 PM
To: Lackey, Johnny; Whatley, Michael; Moore, Darrell; Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; Monzeglio, Hope, NMENV; jami.bailey@statenm.us; VonGonten, Glenn, EMNRD
Subject: OCD/NMED Mtg
When: Tuesday, May 31, 2011 10:00 AM-12:00 PM (GMT-07:00) Mountain Time (US & Canada).
Where: Santa Fe

Follow up meeting to discuss Navajo's Recovery System Project, Underground Line Testing and Injection Wells Fall Off Testing

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May 31 11 Meeting Agenda.doc

	NAVAJO REFINING COMPANY MEETIN (5/31/2011)		
	SANTA FE, NEW MEXICO OIL CONSERVATION DIVISION		
Name	**Company**	**Title**	**Phone**
Carl Chavez	NMOCD	Env. Engr.	505-476-3490
Darrell Moore	Navajo Refining	Env. Mgr	575-746-5281
JOHNNY LACKEY	NAVAJO REFINING	ENV. MGR	575-746-5490
Michael Wheatley	NAVAJO REFINING	REF MGR	575-748-6743
Hope Monzeglio Petrie	HWB	Project Leader	505-476-6045
LEONA TSINNAJINNIE	HWB		(505)476-6057
Dave Cobrain	HWB	Staff Mgr	505-476-6055

May 31, 2011

NMED/OCD Meeting Agenda

A. Recovery System Upgrade

1. Project Scope
2. Drawings
3. Completion Schedule

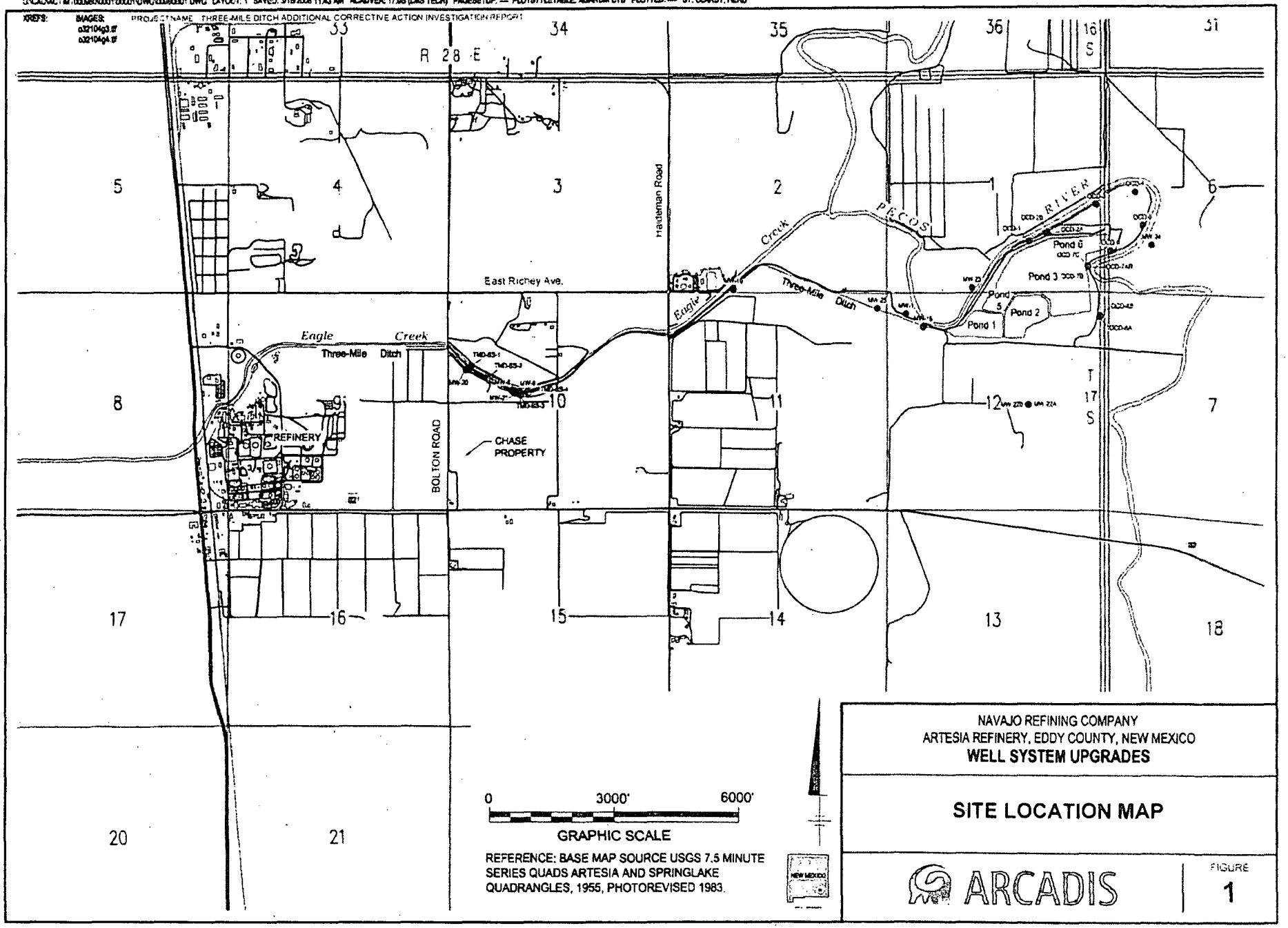
B. Underground Line Testing

1. Status
2. Percentage Tested in 2010 (Lovington & Artesia)
3. Praxair Methods
    a. Long Range Guided Wave Ultrasonic Pipe Screening
    b. Tracer Tight Pipeline Testing
    c. Navajo Requests OCD approval to utilize both methods for Underground line testing in lieu of hydrotesting.

C. Injection Wells Fall Off Test Requirements (Any decision on one well per year?)

1. One well per year
2. All 3 wells inject into the same formation
3. View graph

A brief PowerPoint presentation during discussion

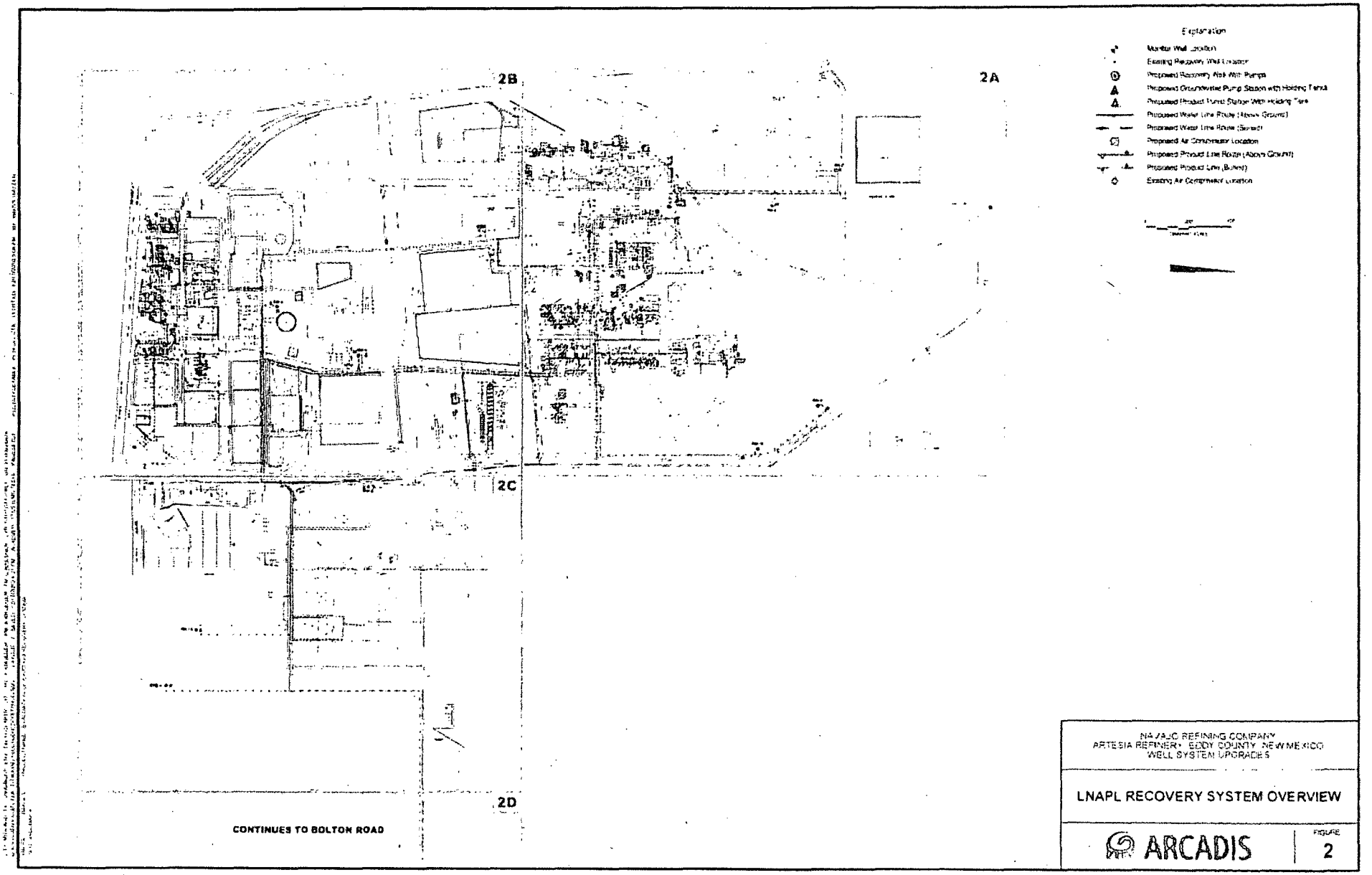


NAVAJO REFINING COMPANY
ARTESIA REFINERY, EDDY COUNTY, NEW MEXICO
WELL SYSTEM UPGRADES

SITE LOCATION MAP

ARCADIS

FIGURE
1

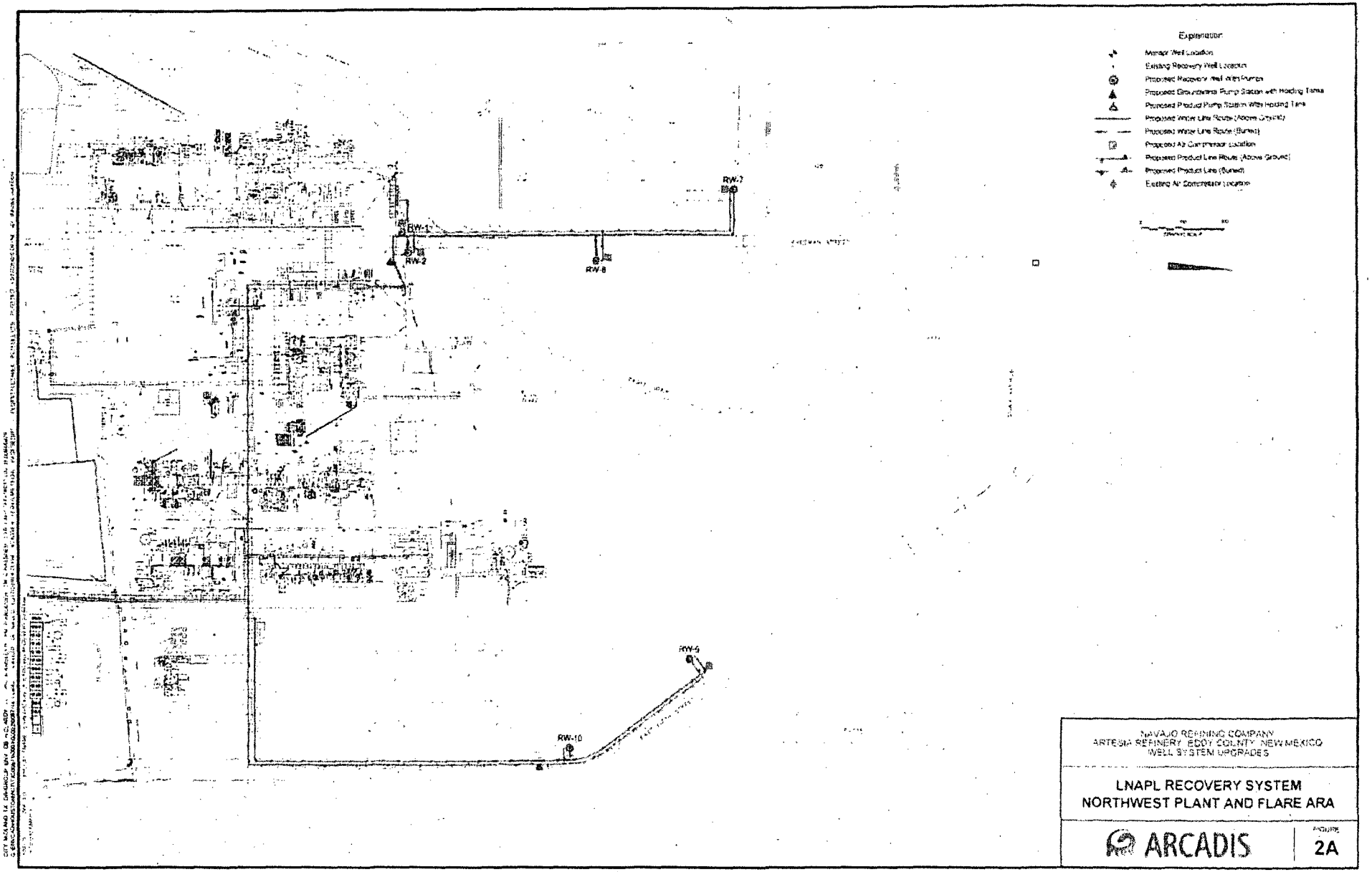


NAVAJO REFINING COMPANY
ARTESIA REFINERY - EDDY COUNTY, NEW MEXICO
WELL SYSTEM UPGRADES

LNAPL RECOVERY SYSTEM OVERVIEW

ARCADIS

FIGURE 2

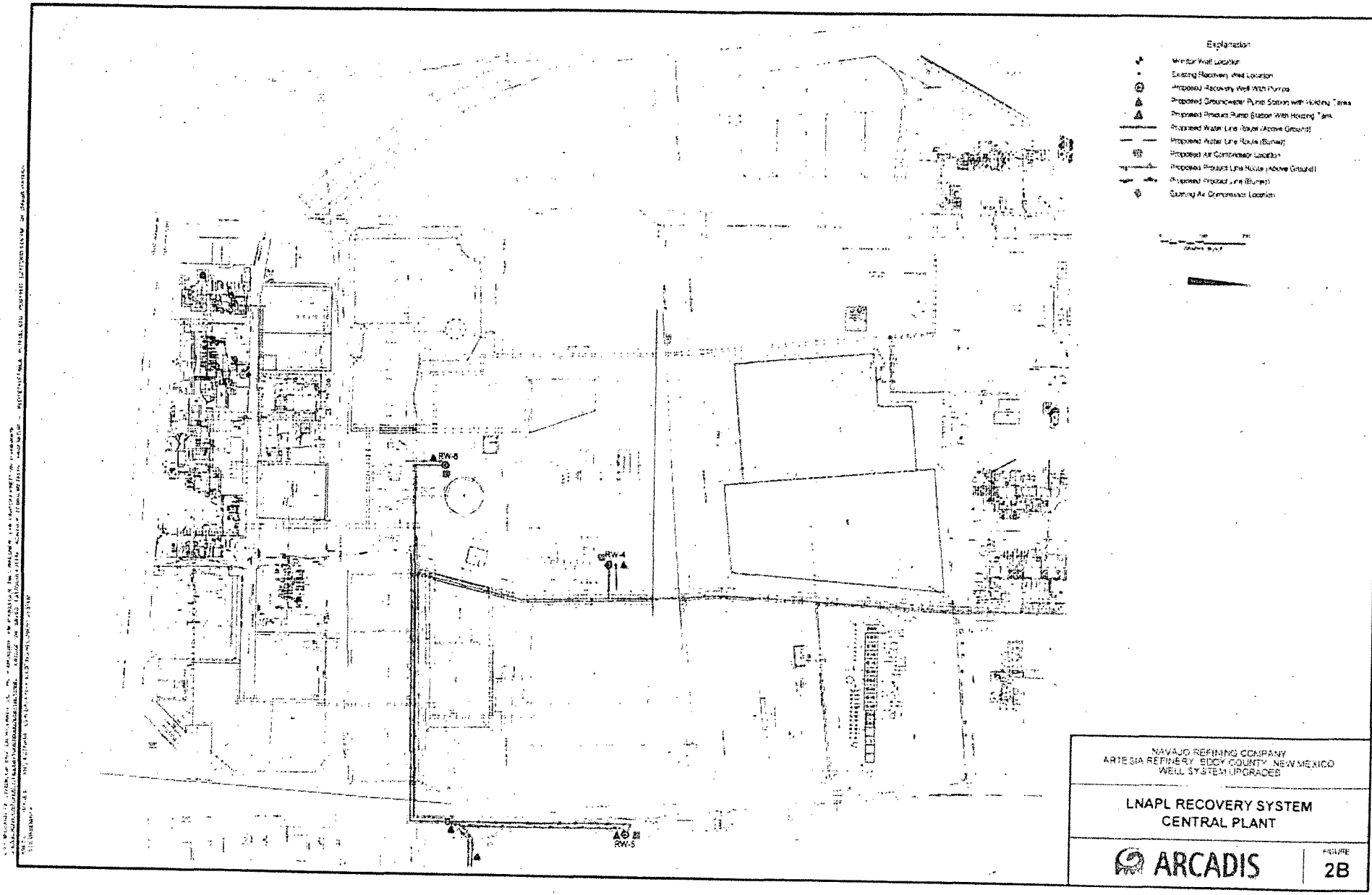


NAVAJO REFINING COMPANY
ARTESIA REFINERY, EDDY COUNTY, NEW MEXICO
WELL SYSTEM UPGRADES

LNAPL RECOVERY SYSTEM
NORTHWEST PLANT AND FLARE ARA

ARCADIS

FIGURE
2A

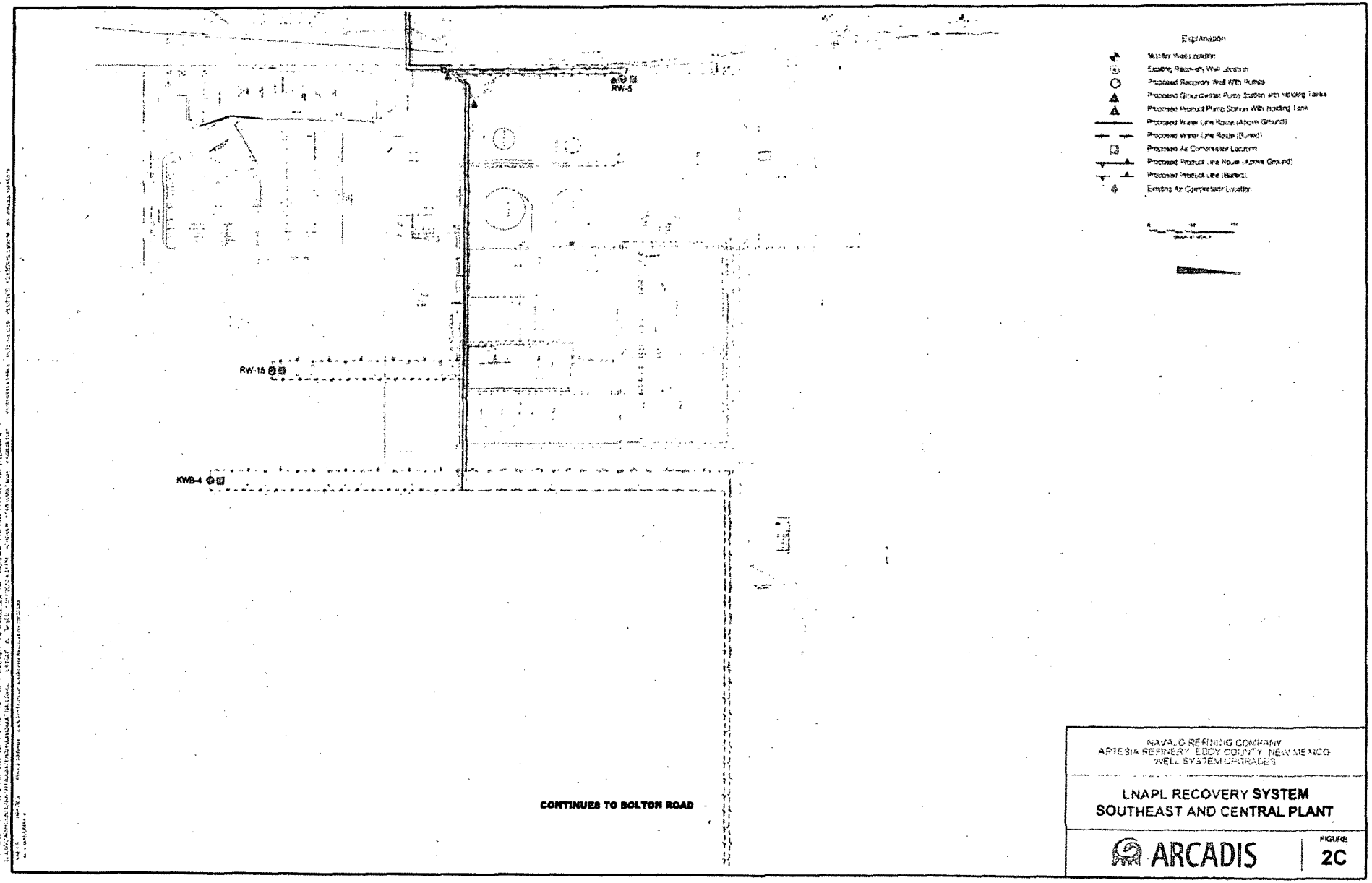


NAVAJO REFINING COMPANY
ARTESIA REFINERY, EDDY COUNTY, NEW MEXICO
WELL SYSTEM UPGRADES

LNAPL RECOVERY SYSTEM
CENTRAL PLANT

ARCADIS

FIGURE
2B

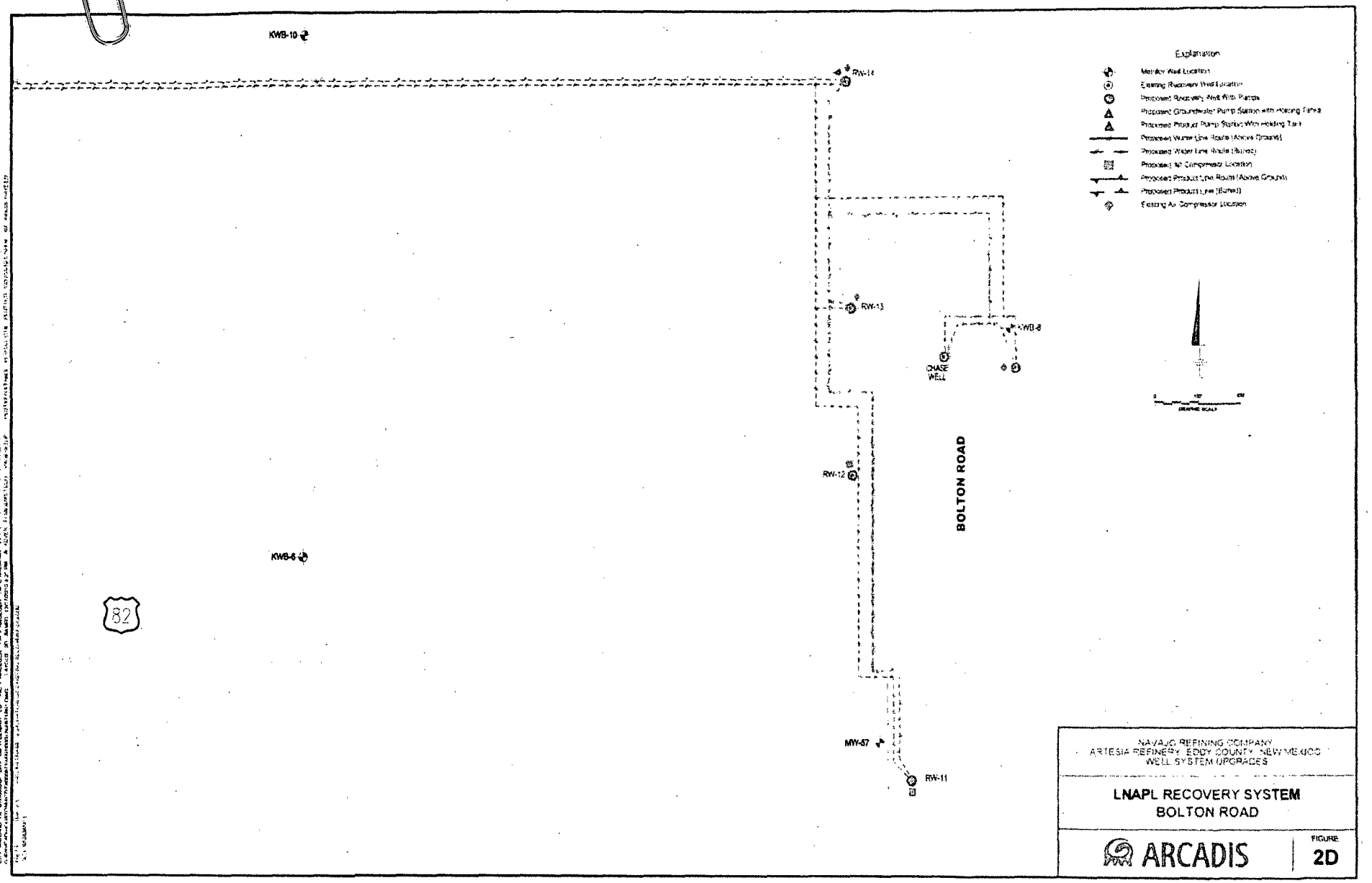


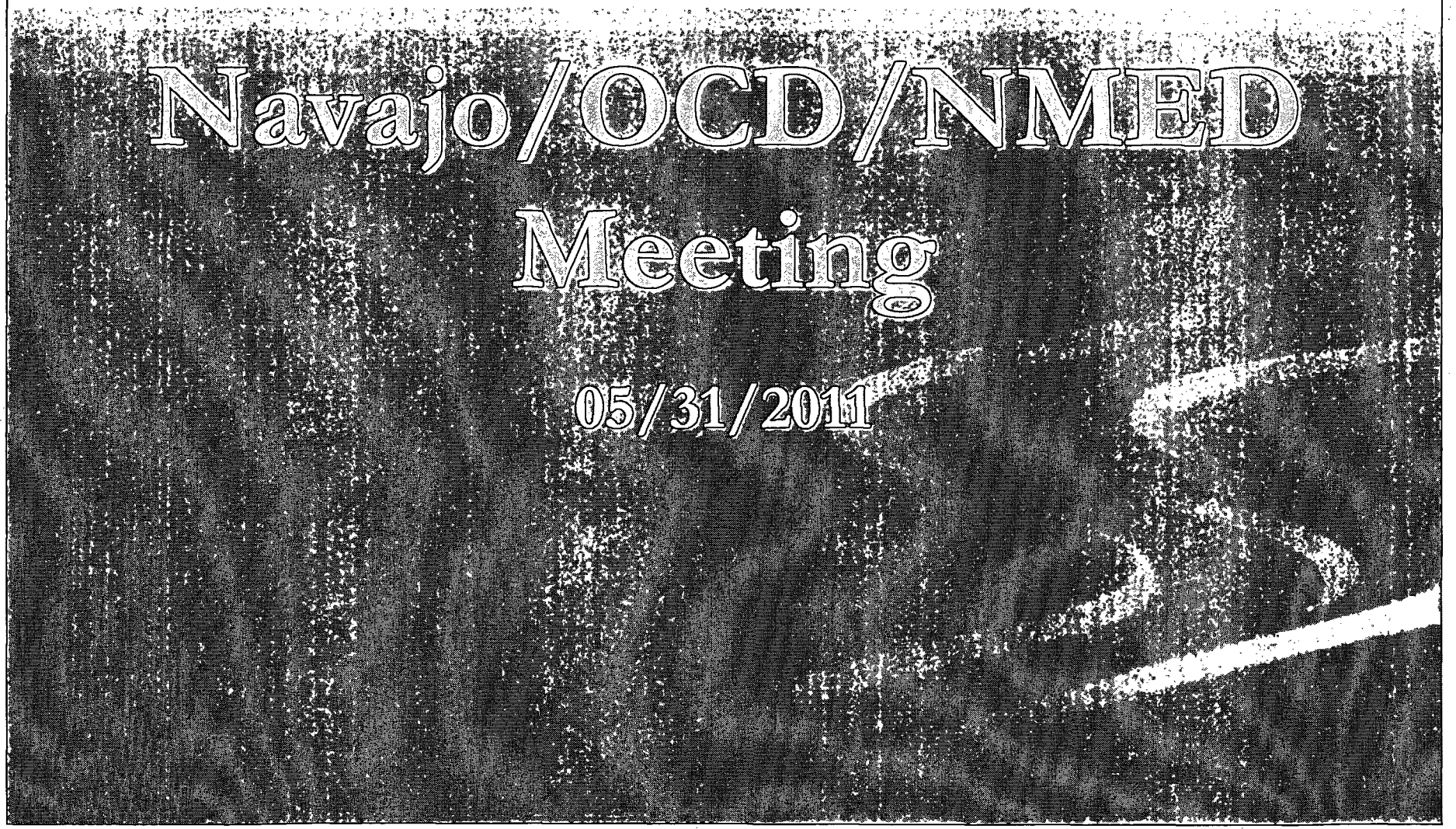
NAVAJO REFINING COMPANY
ARTESIA REFINERY, EDDY COUNTY, NEW MEXICO
WELL SYSTEM UPGRADES

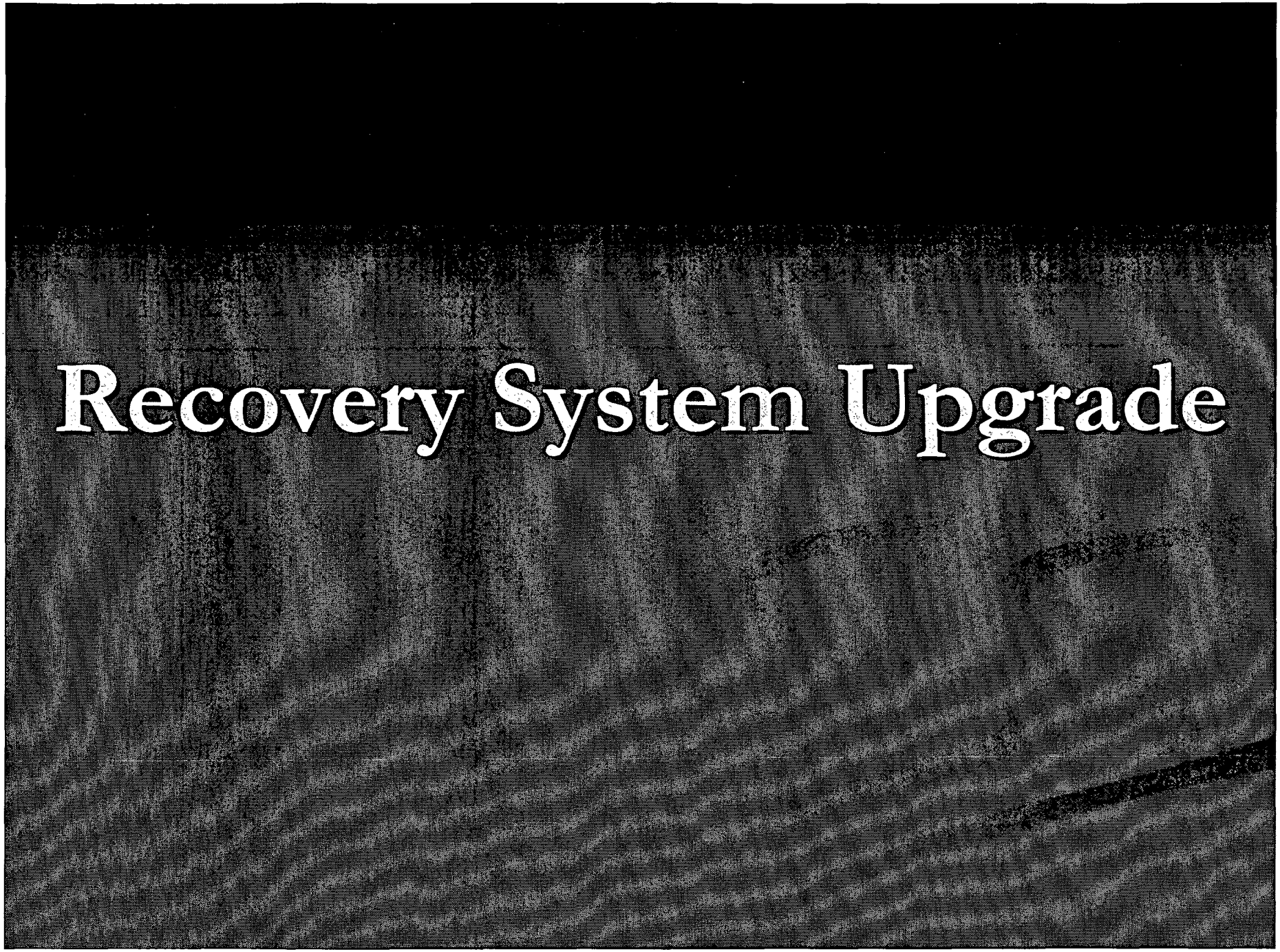
LNAPL RECOVERY SYSTEM SOUTHEAST AND CENTRAL PLANT

ARCADIS

FIGURE 2C


KWB-10
RW-14
RW-13
KWB-8
CHASE WELL
RW-12
BOLTON ROAD
KWB-6
82
MW-57
RW-11
Explanation
Monitor Well Location
Existing Recovery Well Location
Proposed Recovery Well With Pumps
Proposed Groundwater Pump Station with Holding Tanks
Proposed Product Pump Station With Holding Tank
Proposed Water Line Route (Above Ground)
Proposed Water Line Route (Buried)
Proposed Air Compressor Location
Proposed Product Line Route (Above Ground)
Proposed Product Line (Buried)
Existing Air Compressor Location
NAVAJO REFINING COMPANY
ARTESIA REFINERY, EDDY COUNTY, NEW MEXICO
WELL SYSTEM UPGRADES
LNAPL RECOVERY SYSTEM
BOLTON ROAD
ARCADIS
FIGURE
2D


Navajo/OCD/NMED
Meeting
05/31/2011


Recovery System Upgrade

OVERVIEW

The refinery has experienced a series of spill events over the years that have resulted in a light non-aqueous phase liquid (LNAPL) free product accumulation on groundwater. The free product is located beneath the main refinery and extends downgradient past Bolton Road and onto the Chase Property.

OVERVIEW (cont.)

Over the past 10 years, numerous independent systems have been installed to capture this material with limited success. The purpose of this project is to create a refinery wide system capable of aggressively addressing this issue.

Upon completion, the new system will:

OVERVIEW (cont.)

- Utilize modern pneumatic skimmer pumps to capture the oil.
- Collect the free product in local tanks, which will then be transferred via a pipe rack based piping system to the wastewater treatment plant slop tank (Tank 49), which becomes feed stock for the refinery.

OVERVIEW (cont.)

- Utilize groundwater recovery pumps to lower the groundwater table to enhance product flow to the various collection trenches and wells.
- Transfer the recovered groundwater to the plant WWTU.
- Collect the data necessary for proper reporting to regulatory authorities.

PROJECT SCOPE

- 17 recovery wells to be upgraded and connected to pipe racks, in three phases
- All piping inside Refinery boundaries to be above ground welded carbon steel, insulated and heat traced
- Racked piping requires additional transfer pumps/tanks in order to overcome head changes, etc.

PROJECT SCOPE (cont.)

- P&IDs required to provide a basis for design for engineering staff and mechanical consultant (hired to design rack piping)
  - Phase 1 to be done this year
  - Phase 2 estimated to be done in 2012-2013
  - Phase 3 (balance) may not be required

Phase I

- Adjust Tank 49 as needed to receive recovered product
- Install equipment in Bolton Road Area
- Install equipment in Southeast Plant Area
- Install piping from Bolton Road Area and Southeast Plant Area to process sewer and Tank 49

Phase II

- Install equipment in Northwest Plant Area
- Install piping from Northwest Plant Area to process sewer and Tank 49
- Install equipment at RW-6 in Central Plant Area
- Install piping from RW-6 to process sewer and Tank 49

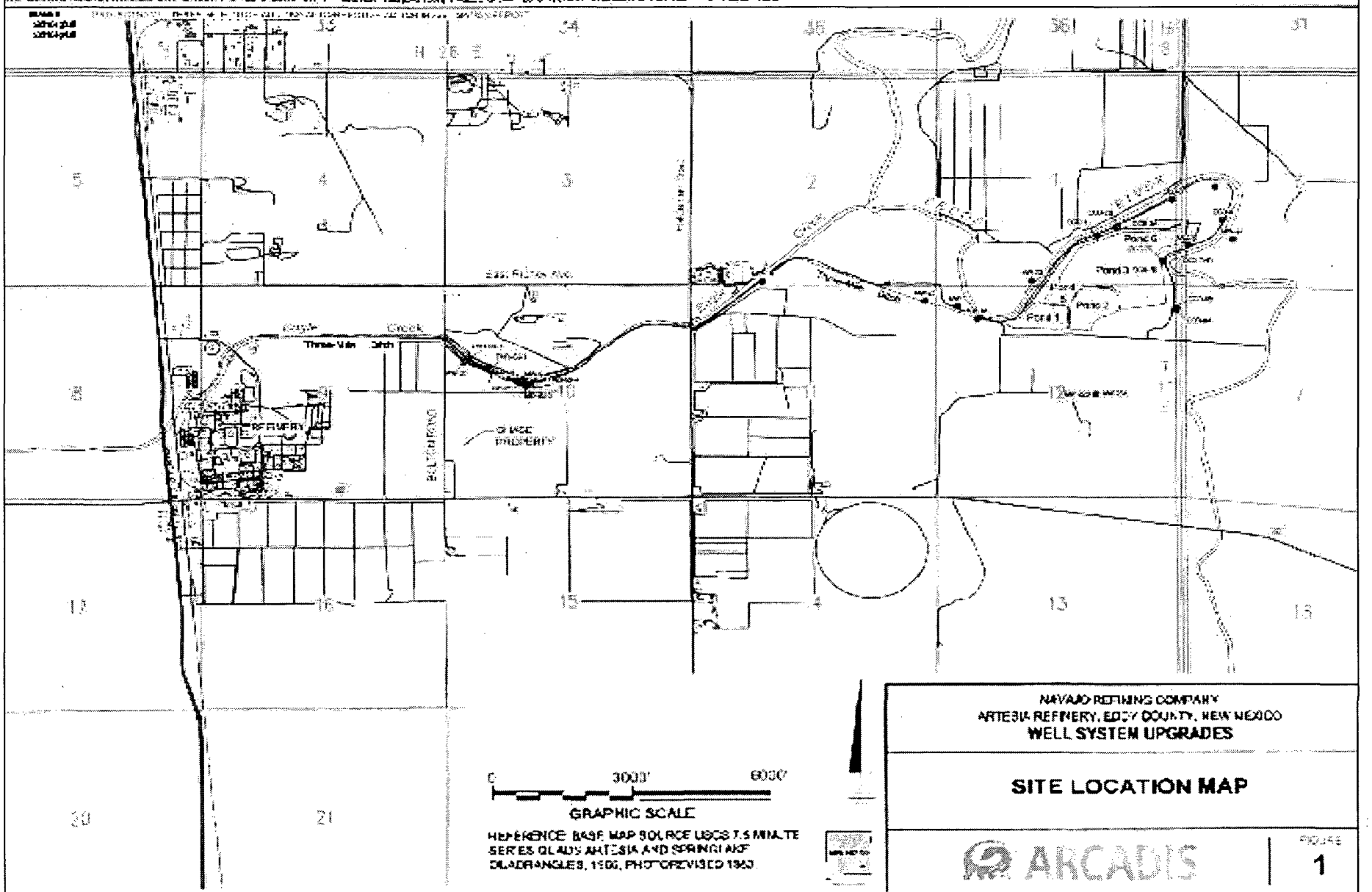
Phase III

- Install equipment in Flare Area
- Install piping from Flare Area to process sewer and Tank 49
- Install equipment at RW-4 in Central Plant Area
- Install piping from RW-4 to process sewer and Tank 49

Recovery Well ID	Depth to Product	Depth to Water	Depth to Groundwater Pump Inlet**	Total Depth	Required Total Depth***	Depth Addjustment Required	Installation Phase
	(ft BTOC)	(ft BTOC)	(ft BTOC)	(ft BTOC)	(ft BTOC)		
RW-1	10.33	10.35	12.85	18.5	19	NO	2
RW-2	12.50	12.53	15.03	19.4	21	YES	2
RW-4	NP	15.90	18.4	20.45	24	YES	3
RW-5	14.91	17.03	19.53	17.48	25	YES	1
RW-6	16.69	16.84	19.34	16.95	25	YES	2
RW-7	NP	11.36	13.86	20.79	20	NO	2
RW-8	12.41	12.81	15.31	17.97	21	YES	2
RW-9	NP	11.15	13.65	21.84	20	NO	3
RW-10	NP	12.30	14.8	23.97	21	NO	3
RW-11	NP	18.10	20.6	22.9	27	YES	1
RW-12	NP	18.14	TBD	22.71	TBD	YES	1
RW-13	18.08	18.20	20.7	25.92	27	NO	1
RW-14	17.90	18.05	20.55	23.45	26	YES	1
RW-15	16.80	17.22	19.72	21.42	26	YES	1
KWB-4*	22.38	23.95	26.45	41.81	32	NO	1
New Chase 1*	21.30	22.10	24.6	24.25	31	YES	1
New Chase 2*	23.30	27.60	30.1	34.5	36	YES	1

Notes:

ft BTOC	Feet Below Top of Casing
NP	No product present
TBD	To Be Determined. RW-11 and RW-12 will be drilled to a total depth that will be determined in the field to ensure well will retain enough water to support the system.
*	These wells do not have a large enough casing diameter to serve as recovery wells. New wells will be drilled at these locations.
**	Depth to Pump Inlet is 2.5 feet added to the Depth to Water. The 2.5 feet assumes a 1.5 foot draw down based on a 2 foot skimmer float range and includes a minimum 1 foot buffer between the pump inlet and the bottom of the LNAPL layer.
***	Proposed Total Depth is 5 feet added to the depth to the bottom of the pump motor. Grundfos recommends the pump motor be atleast 5 feet above the bottom of a well with a soil bottom.

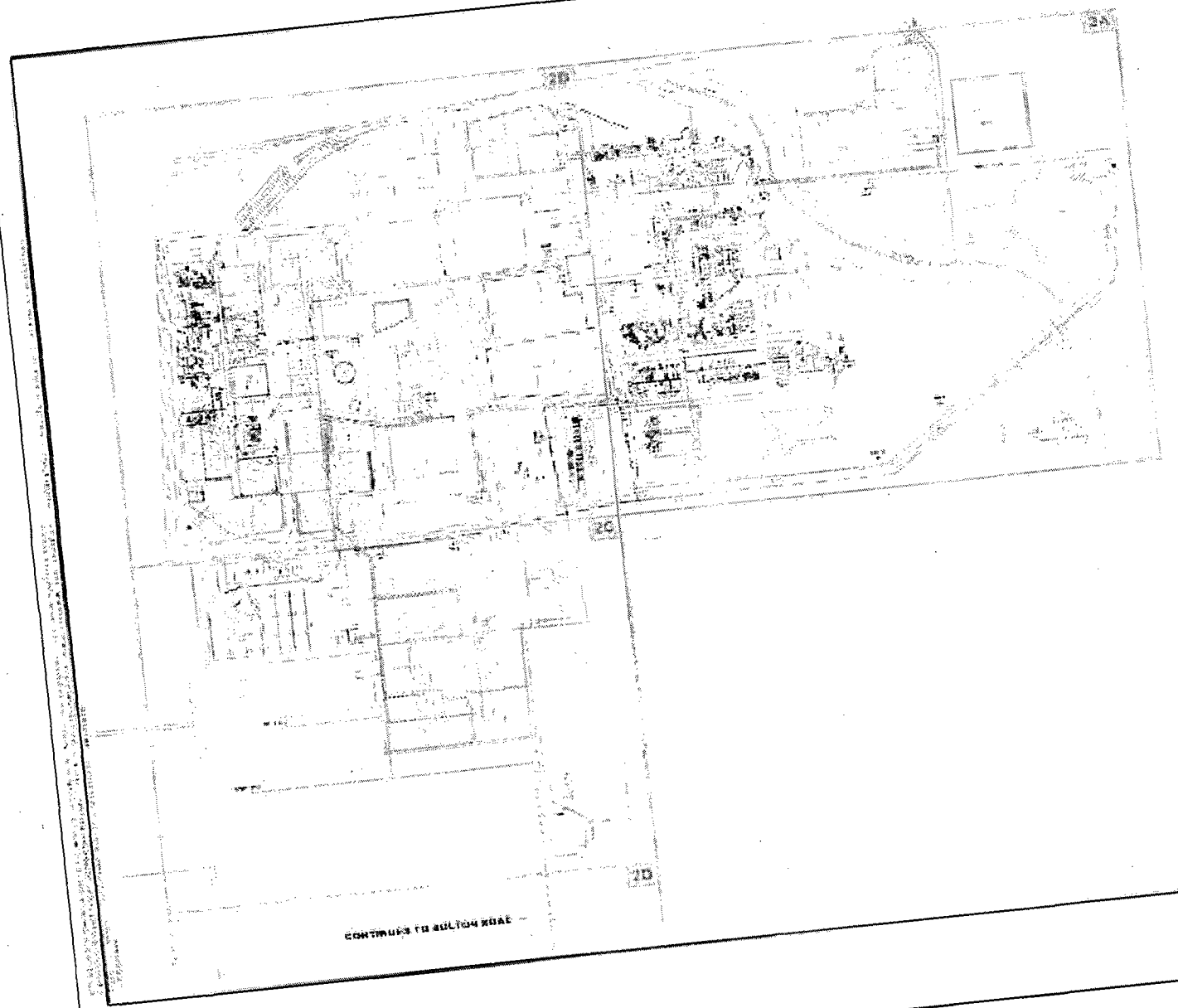


NAVAJO REFINING COMPANY
ARTESIA REFINERY, EDDY COUNTY, NEW MEXICO
WELL SYSTEM UPGRADES

SITE LOCATION MAP

ARCADIS

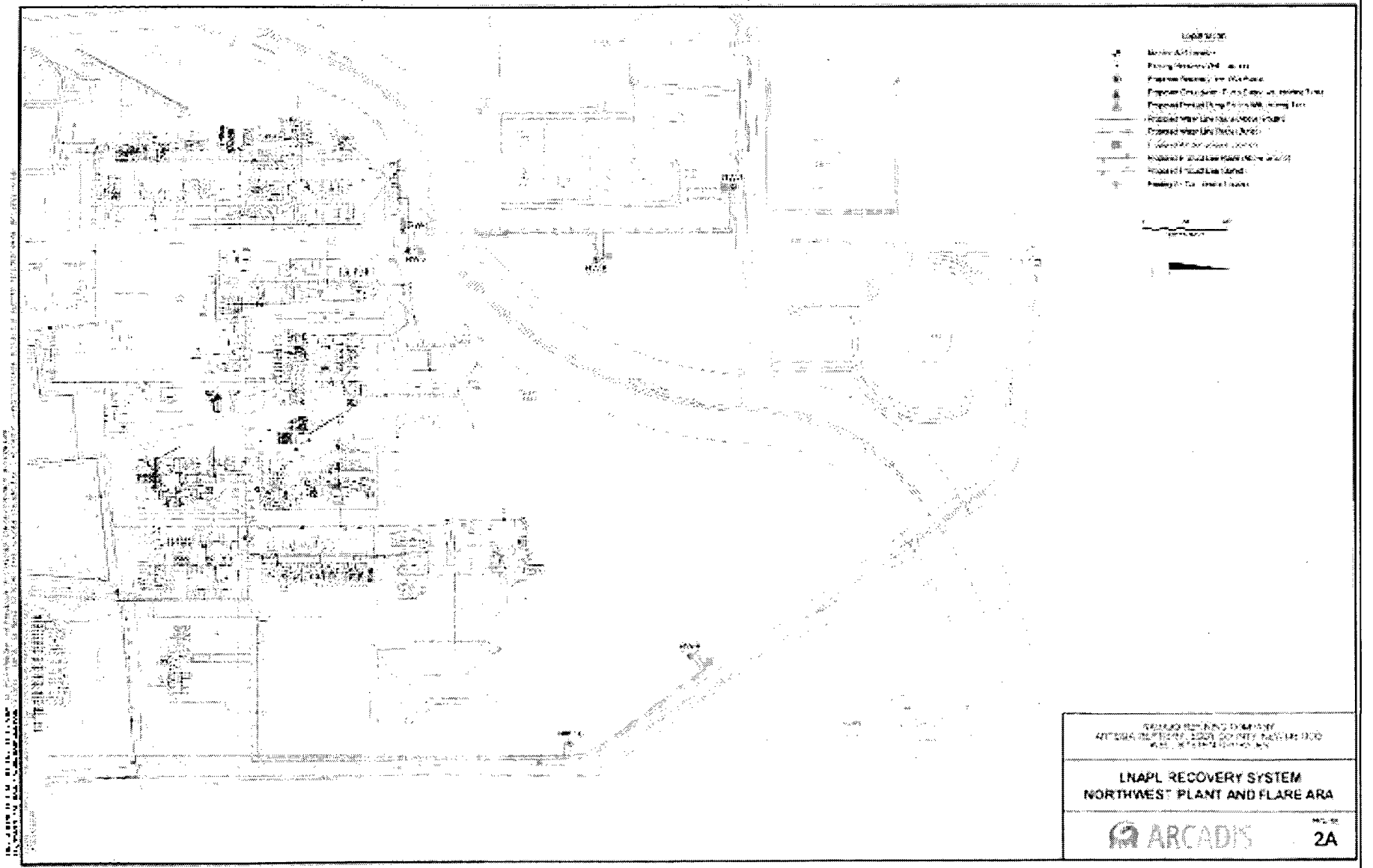
FIGURE 1



LNAPL RECOVERY SYSTEM OVERVIEW

ARCADIS

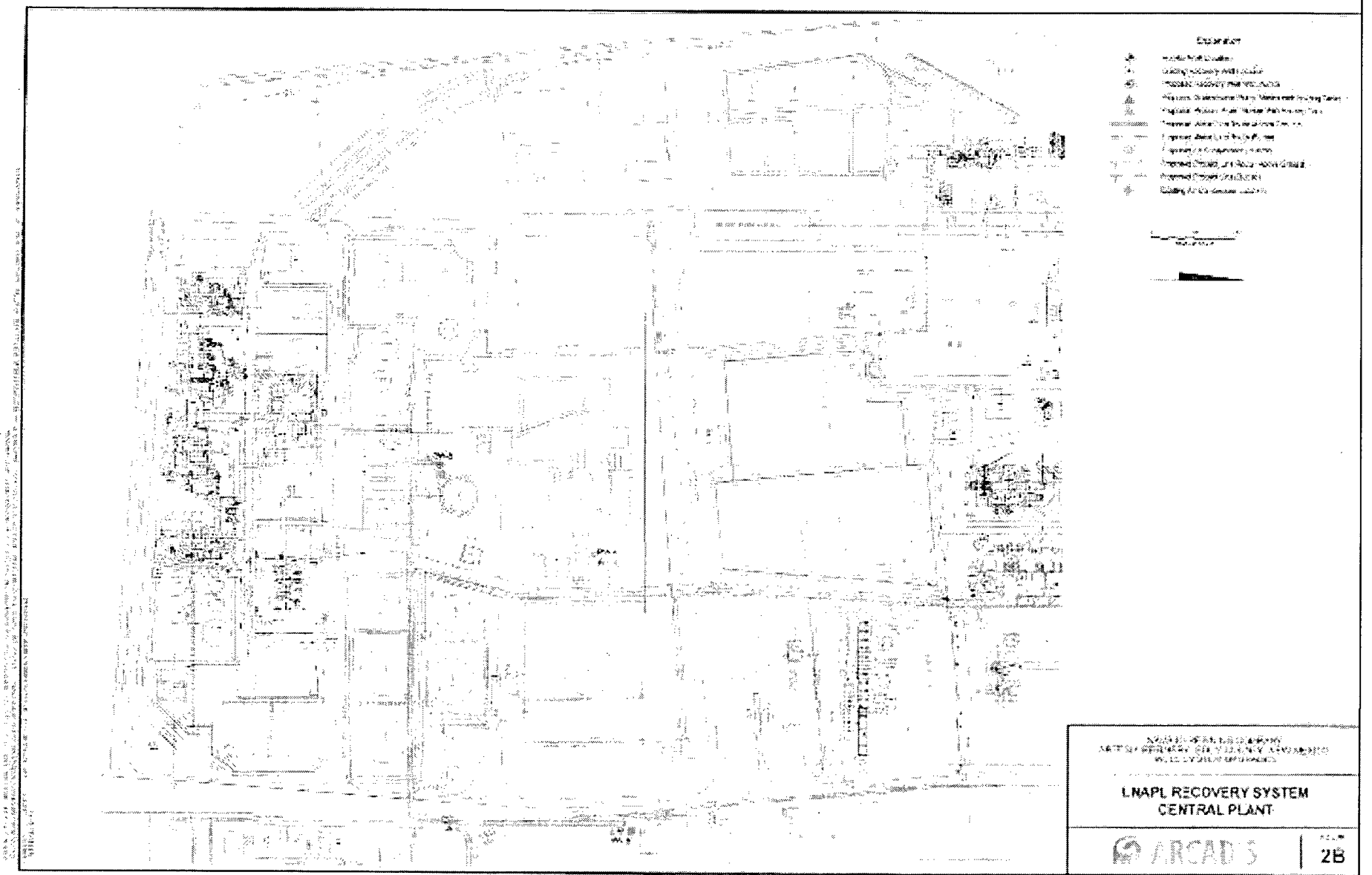
2



LNAPL RECOVERY SYSTEM
NORTHWEST PLANT AND FLARE ARA

ARCADIS

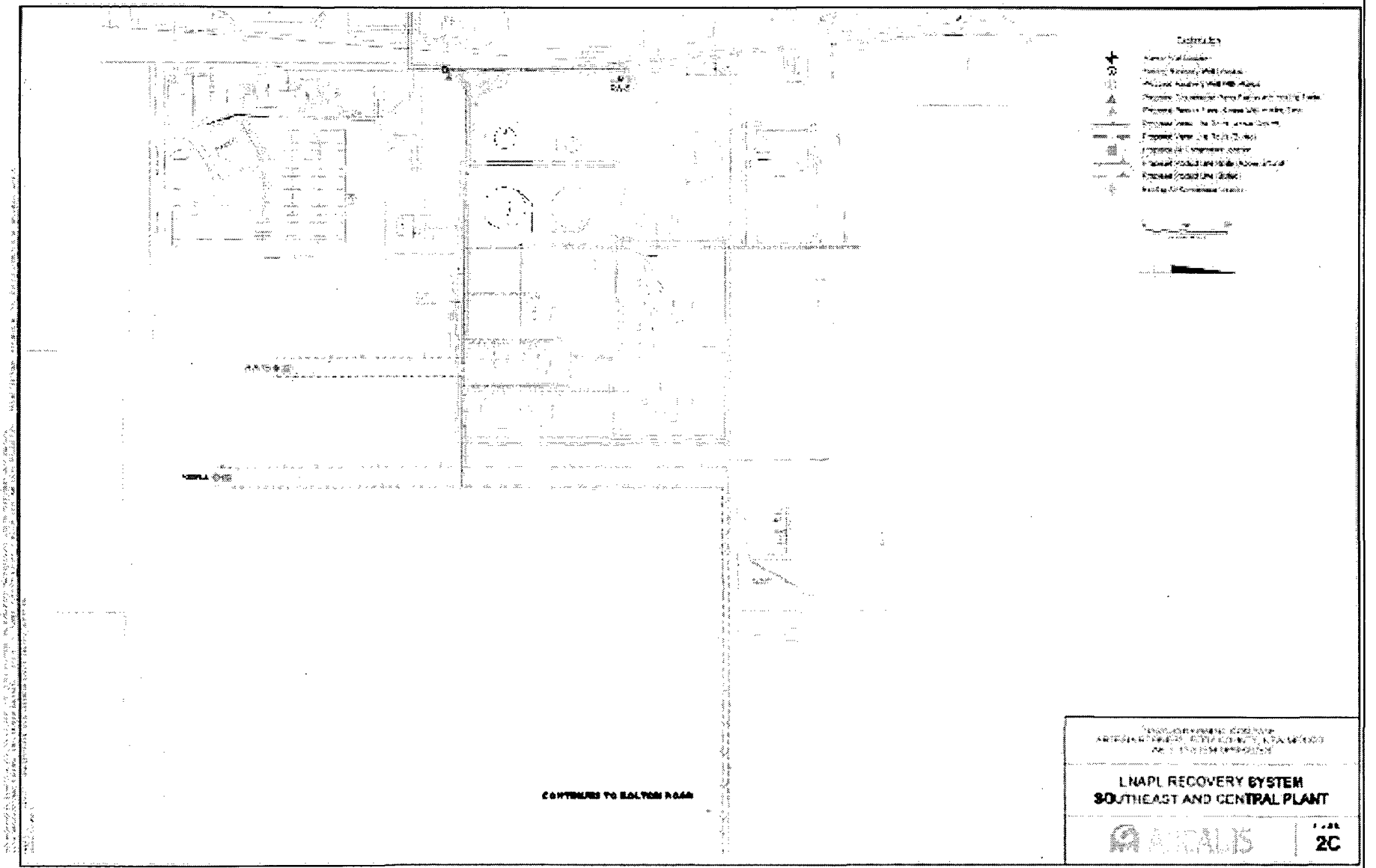
2A

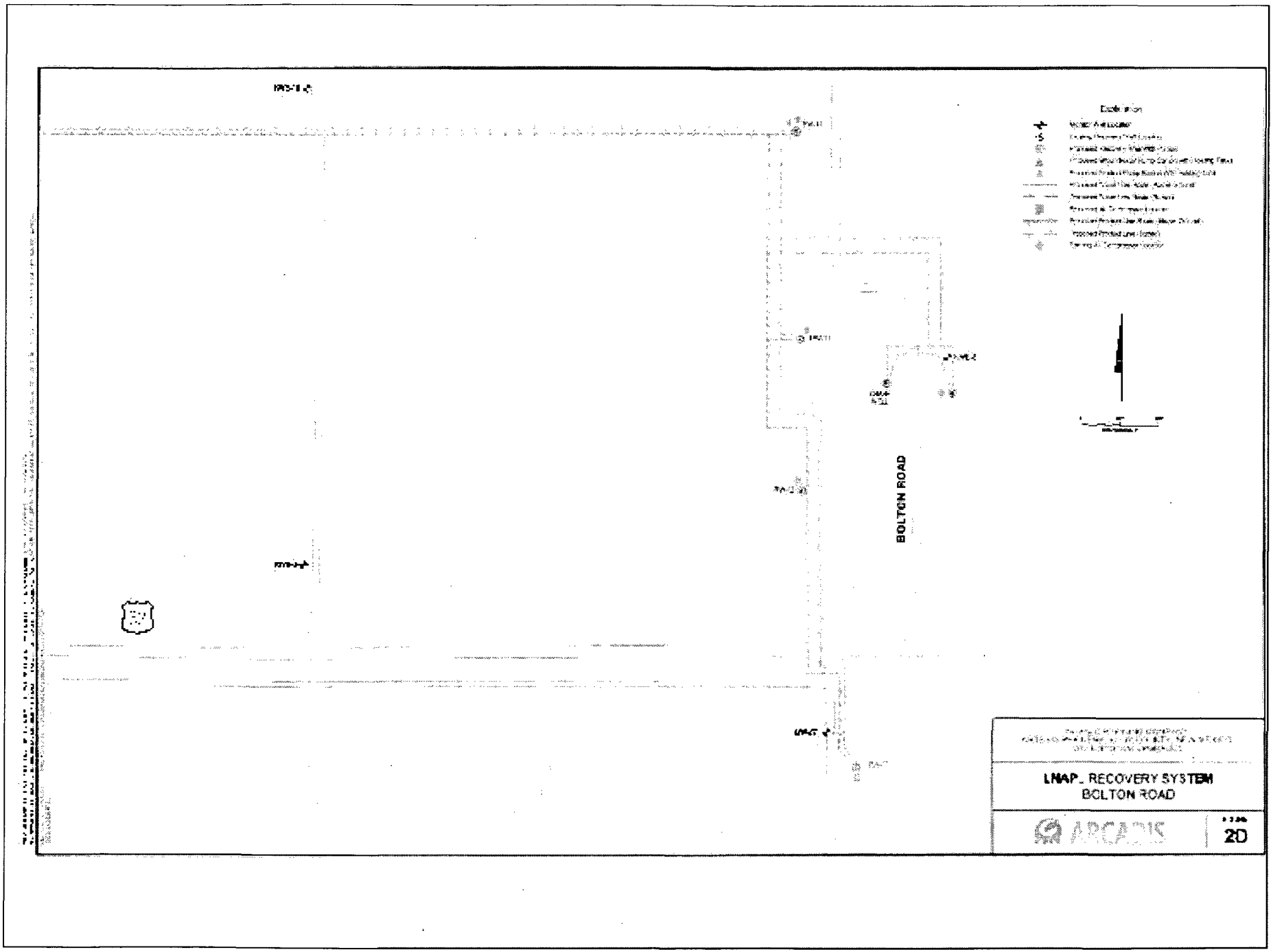


LNAPL RECOVERY SYSTEM
CENTRAL PLANT

ARCADIS

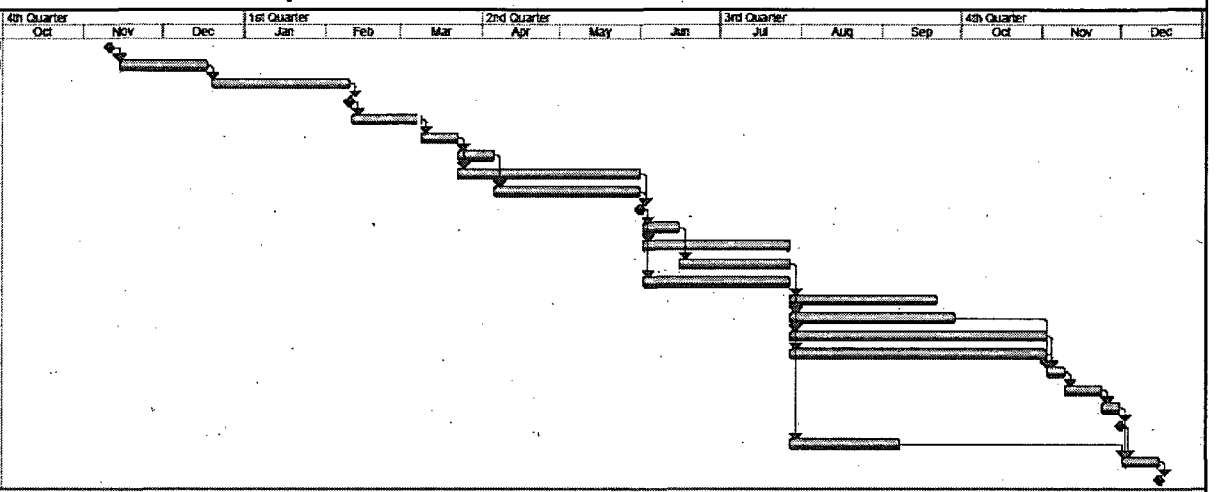
2B


CONTINUES TO BOLTON ROAD
LNAPL RECOVERY SYSTEM
SOUTHEAST AND CENTRAL PLANT
2C


BOLTON ROAD
LNAPL RECOVERY SYSTEM
BOLTON ROAD
ARCADIS
2D

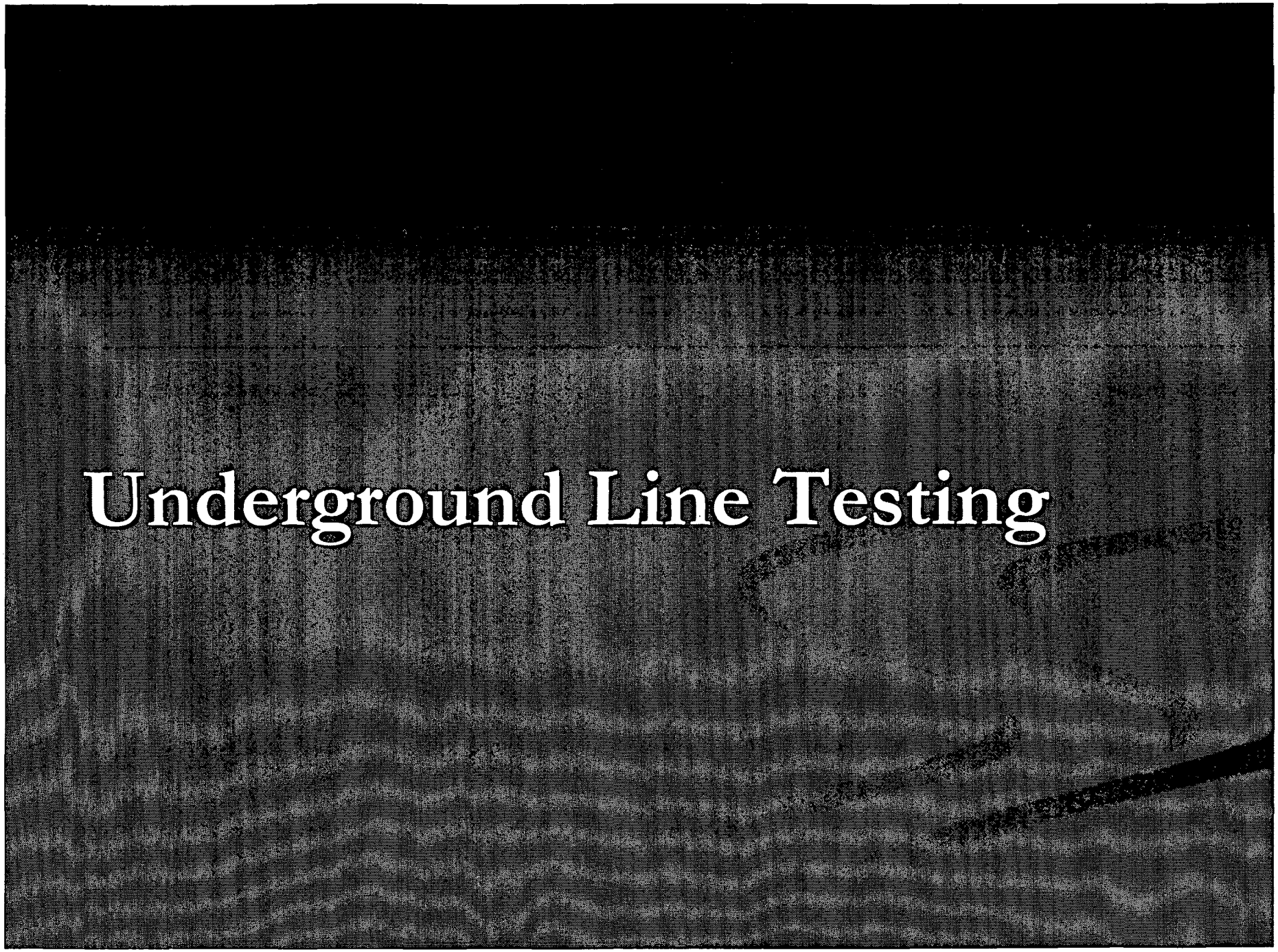
Navajo Refinery
Recovery System Design and Installation
Project Schedule

ID	Task Name	Duration	Start	Finish
1	Project Kick-off Meeting	1 day?	Thu 11/11/10	Thu 11/11/10
2	BODR Preparation	25 days?	Mon 11/15/10	Fri 12/17/10
3	BODR Review	38 days?	Mon 12/20/10	Wed 2/9/11
4	BODR Review Meeting	1 day?	Thu 2/10/11	Thu 2/10/11
5	Line List Preparation	18 days?	Fri 2/11/11	Tue 3/8/11
6	Line List Integration	10 days	Wed 3/9/11	Tue 3/22/11
7	Contract Rack Design Firm	10 days	Wed 3/23/11	Tue 4/5/11
8	Detailed Design - ARCADIS	50 days	Wed 3/23/11	Tue 5/31/11
9	Detailed Design - Rack	40 days	Wed 4/6/11	Tue 5/31/11
10	HAZOP	1 day?	Wed 6/1/11	Wed 6/1/11
11	Bid Document Preparation	10 days	Thu 6/2/11	Wed 6/15/11
12	Procurement	40 days	Thu 6/2/11	Wed 7/27/11
13	Bidding	30 days	Thu 6/16/11	Wed 7/27/11
14	Existing Equipment Removal	40 days	Thu 6/2/11	Wed 7/27/11
15	Tank/ Pump Stand Fabrication	40 days	Thu 7/28/11	Wed 9/21/11
16	Well Reconstruction/ Installation	45 days	Thu 7/28/11	Wed 9/28/11
17	Rack Pipe Installation	70 days	Thu 7/28/11	Wed 11/2/11
18	Well Equipment Installation	70 days	Thu 7/28/11	Wed 11/2/11
19	PSSR	5 days	Thu 11/3/11	Wed 11/9/11
20	PSSR Checklist Completion	10 days	Thu 11/10/11	Wed 11/23/11
21	Commissioning	5 days	Thu 11/24/11	Wed 11/30/11
22	System Turnover to Operations	1 day?	Thu 12/1/11	Thu 12/1/11
23	Manual Preparation	30 days	Thu 7/28/11	Wed 9/7/11
24	Training	10 days	Fri 12/2/11	Thu 12/15/11
25	Start-up	1 day?	Fri 12/16/11	Fri 12/16/11



Project: Recovery System Proposed S
Date: Tue 3/8/11

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone


Underground Line Testing

Status

- Completed 100 % testing of underground lines at Lovington in 2010
- Completed 81 % testing of underground lines at Artesia
  - 14 lines at Artesia cannot be tested without a unit or pipeline shutdown

Alternate Test Method

- Navajo requests approval for an alternate test method vs. hydrotesting
- Navajo and Praxair had presented two methods previously to the OCD for consideration
  - Tracer Tight Method
  - Long Range Guided Wave Ultrasonic Pipe Screening

Alternate Test Method (cont.)

Navajo requests approval to use both methods in tandem for testing lines at both Artesia and Lovington.

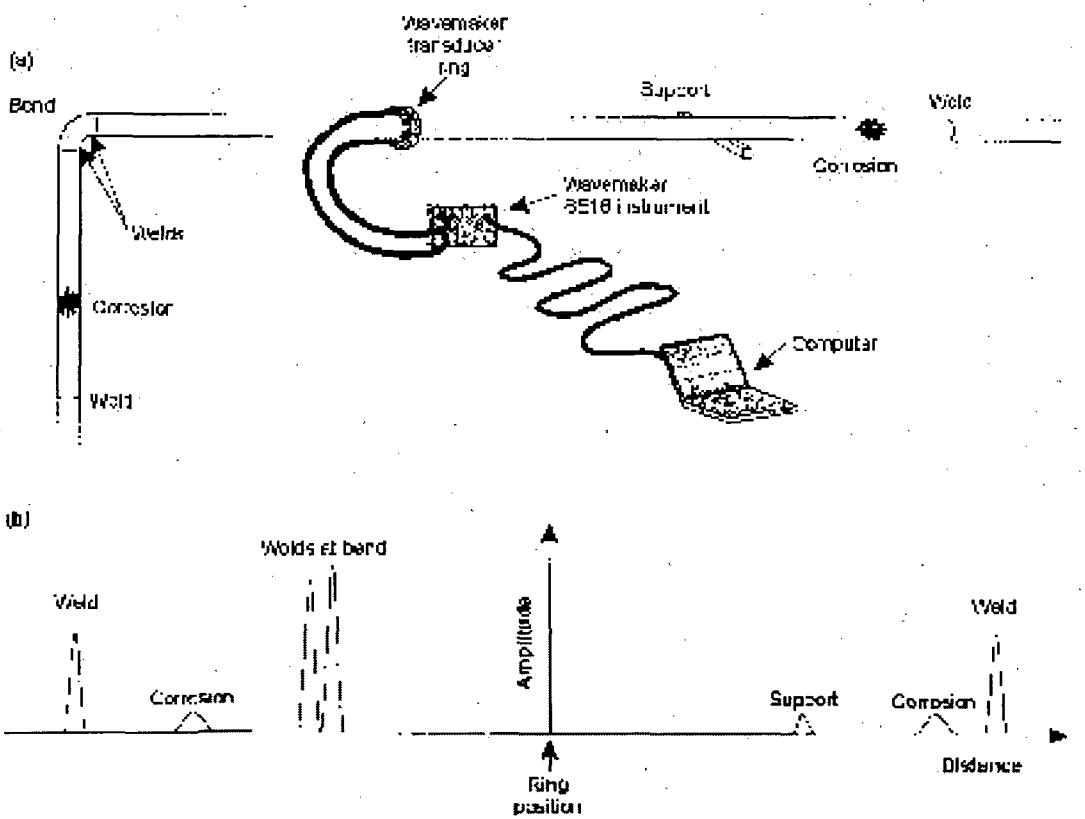
- The tracer tight method is used to detect leaks in the pipeline by injecting a tracer gas into the product stream and checking strategically placed probes along the pipeline.

Alternate Test Method (cont.)

- The Guided Wave Ultrasonic method provides an indicator of the mechanical integrity of the pipeline being tested.
- Detects pipe wall thickness, corrosion and/or, cracks in the pipe segment being tested.
- Can be used to predict failures allowing corrective measures before a leak occurs.

IMPro Technologies

PRAXAIR

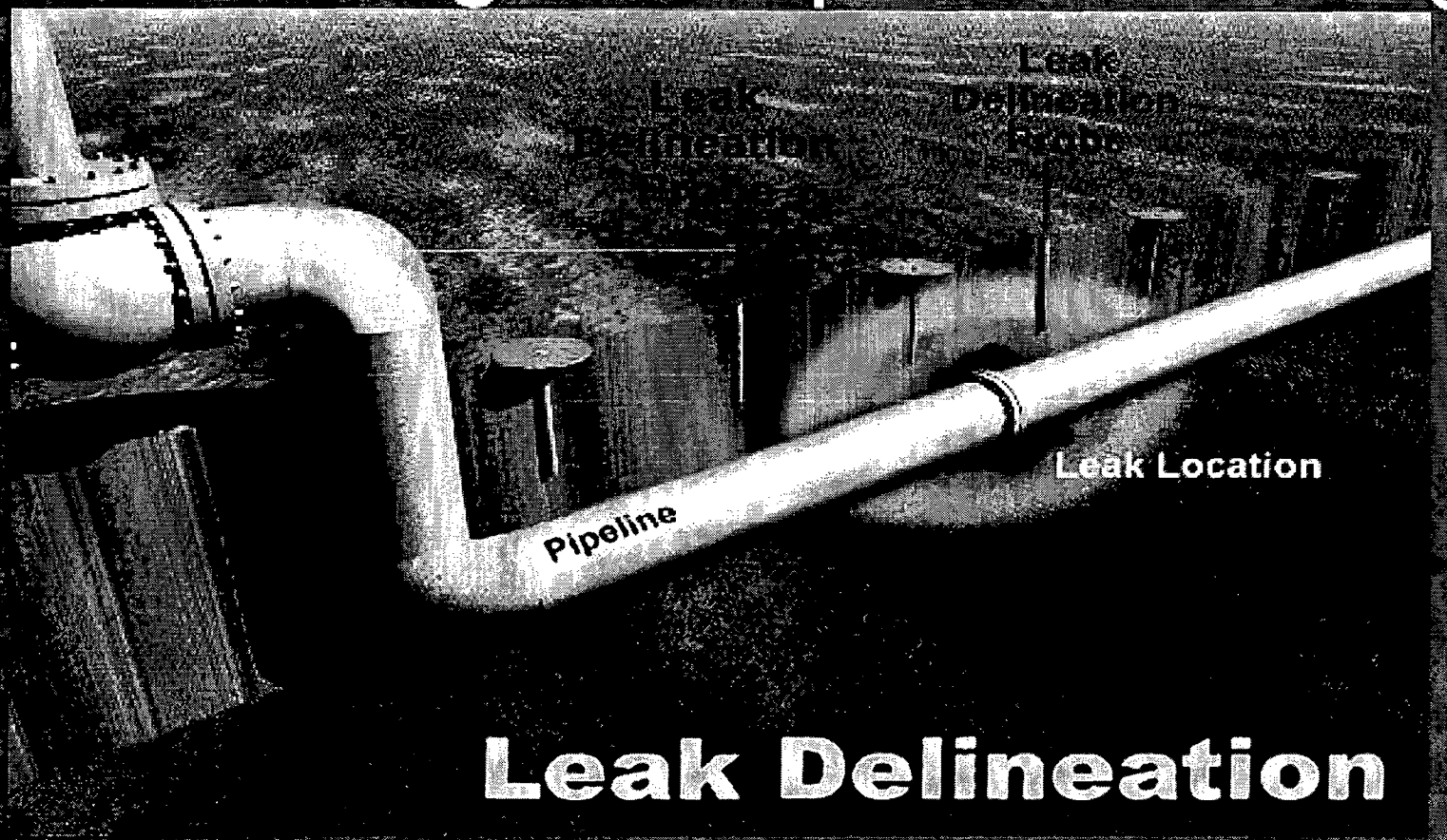


The Wavemaker system is composed of three primary components, labelled in Figure (a) as the transducer ring, the Wavemaker SE16 instrument, and the controlling computer. The transducer rings are specific to a certain pipe size. They use either springs or air pressure to dry couple piezoelectric transducer elements to the pipe being inspected. Internal circuitry allows each transducer ring (and therefore the diameter of the pipe being tested) to be automatically detected by the electronics. All of the signal generation and detection is housed in the Wavemaker SE16 instrument, which operates from an internal rechargeable battery and is connected to a standard laptop PC via a USB or serial connection. The control of the instrument as well as the signal processing and report sheet generation is done via the Wavemaker WavePro software.

Praxair Services, Inc.

Technical Solutions for the Industrial World

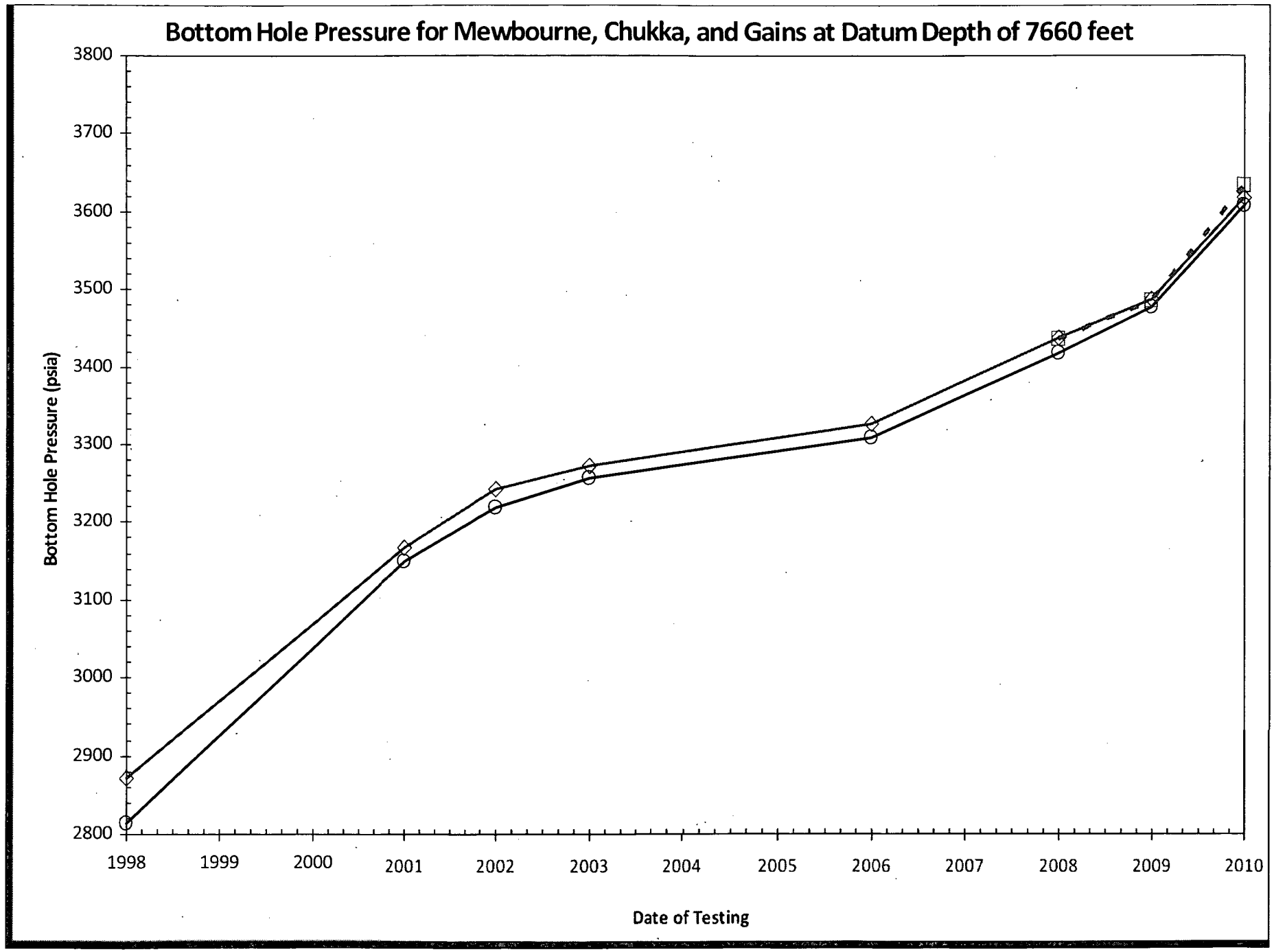
TracerTight® Pipeline Testing



Leak Delineation

PRAXAIR


Fall Off Test


Bottom Hole Pressure for Mewbourne, Chukka, and Gains at Datum Depth of 7660 feet
Bottom Hole Pressure (psia)
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900
2800
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
Date of Testing

The previous graph shows clearly that all three wells are in communication and supports Navajo's position that performing one fall off test per year is sufficient.

Discuss State's concerns

Lackey, Johnny

Modified: Tue 5/10/2011 8:42 AM

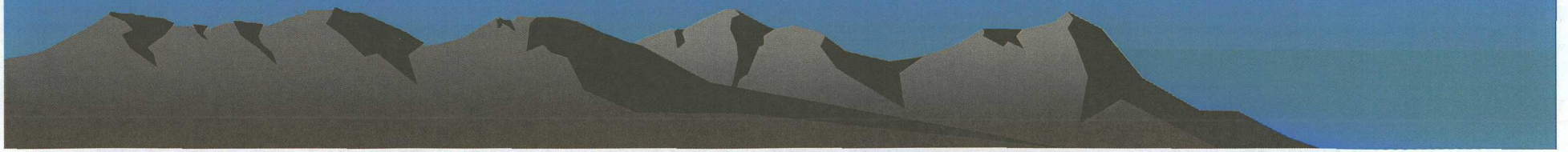
Carl,

Here is the presentation from our meeting on March 22, 2011. Look forward to meeting with you on the 31st.

Johnny Lackey

Navajo/OCD/NMED Meeting

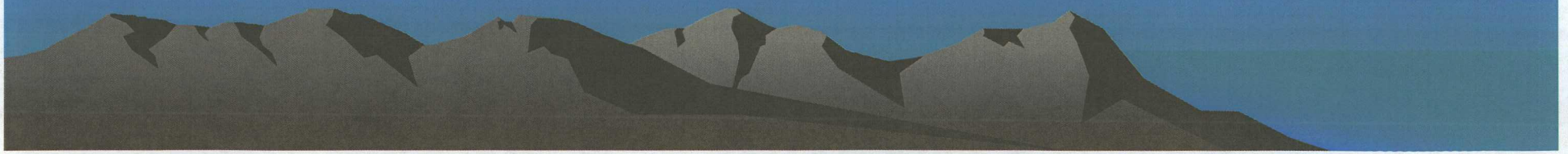
03/22/2011

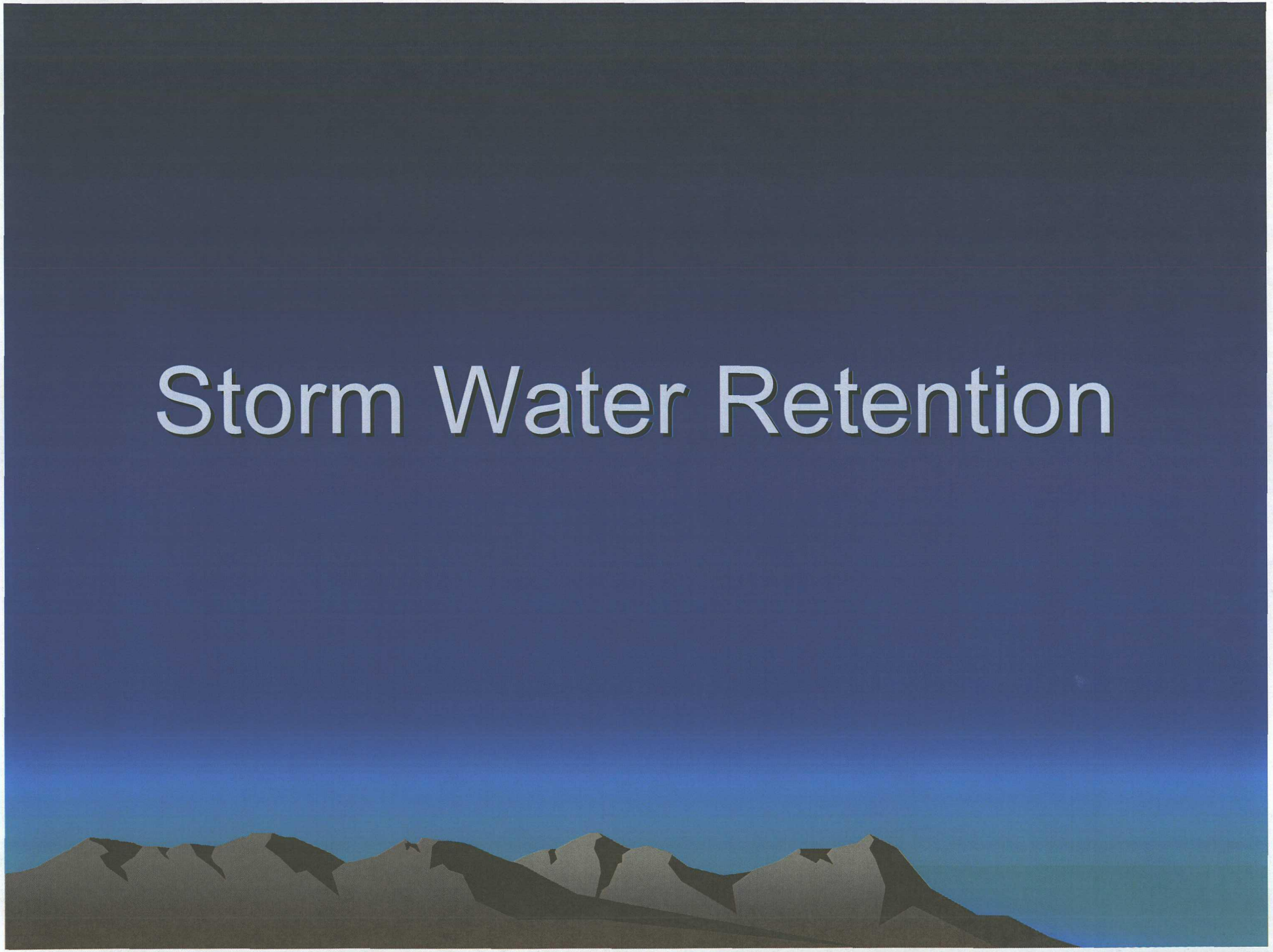


Effluent Line Replacement

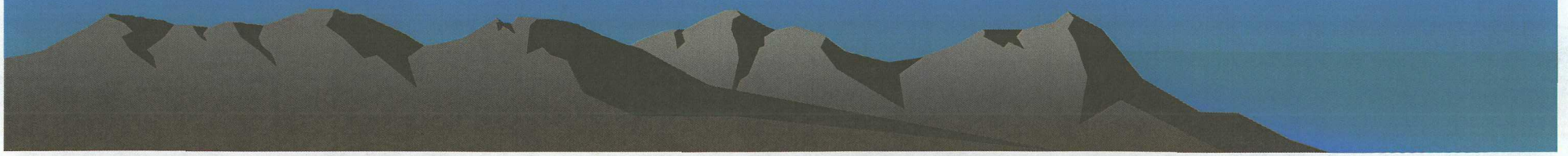

WARNING
EPTEPES'
PIPELINE

Scheduled for completion by mid April of this year




Storm Water Retention

The project will authorize improvements to the Artesia Refinery's wastewater treatment plant (WWTP). These improvements are intended to provide additional capacity to handle storm water event surge flows and to increase biological activity in the aggressive biological treatment system. The project consists of:



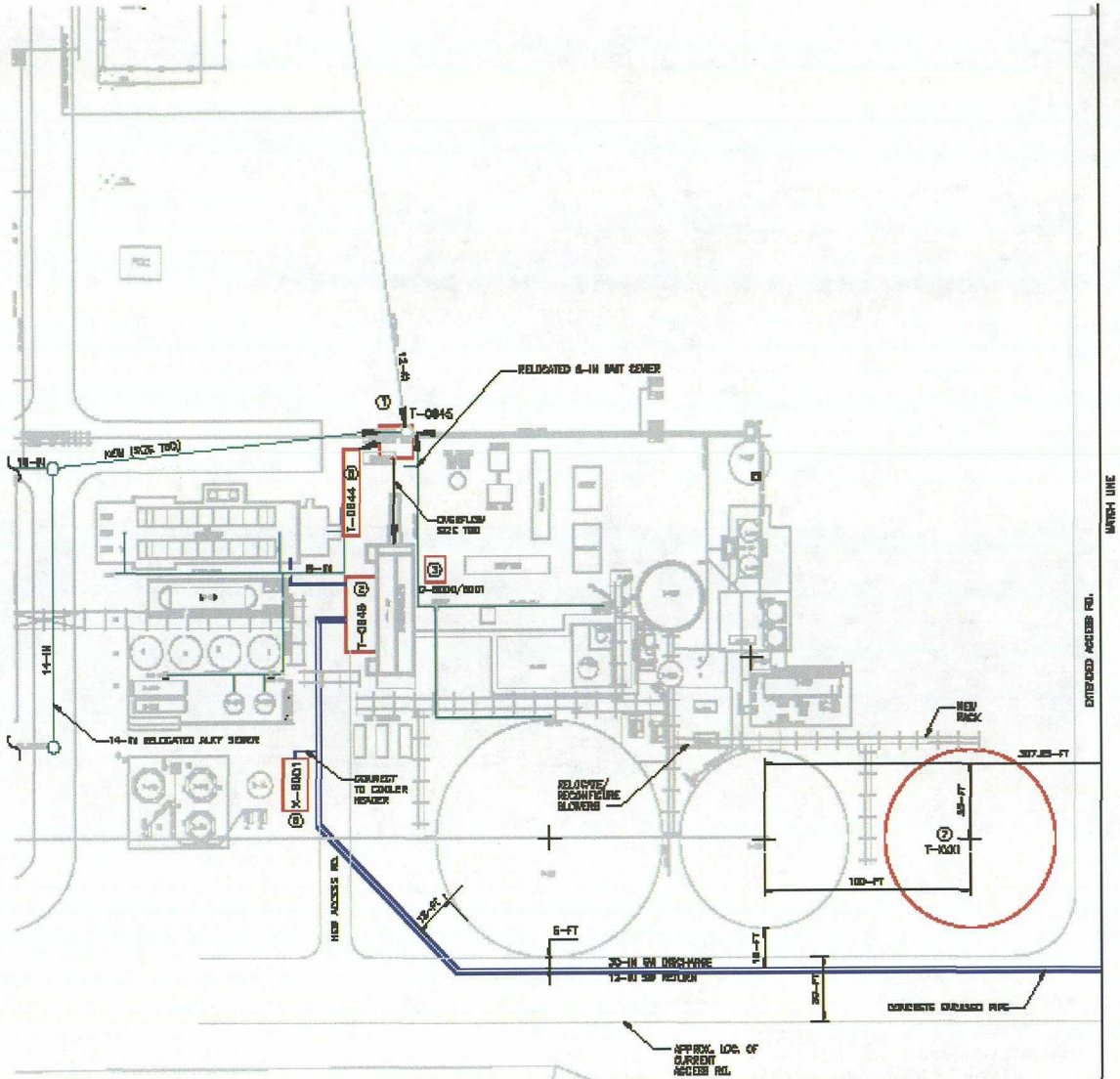
- a new stilling well,
- an existing process lift station,
- an existing API oil/water separator (MAIN API),
- a new storm water lift station,
- a new 100,000 bbl external floating roof storage tank,
- a new cooling tower,
- a new 30,000 bbl wastewater equalization tank,

- existing (unmodified) enhanced biodegradation tanks,
- an existing (unmodified) dissolved air flotation (DAF) unit,
- an existing dissolved air flotation unit that is being put back in service,
- associated junction boxes and piping components,
- a new diesel engine driven storm water lift pump.

Working on detail design

Phase I scheduled to be completed by the end of the first quarter 2012


FIFTH STREET
FREEMAN AVENUE
MOSELY AVENUE
CRUSUM AVENUE
RICHEY AVENUE



LEGEND:

1. NEW STORMWATER DIVERSION STRUCTURE (T-0845)–15 FT±15 FT
2. NEW PUMP STATION – 35 FT ± 15 FT (T-0848)
3. GFF-GWS – 12 FT x 16 FT (D-8000/8001)
4. NEW 100,000 BBL STORM WATER STORAGE TANK (T-0830)
5. NEW STILLING WELL – 8 FT ± 40 FT (T-0844)
6. NEW WET AIR SURFACE COOLER (X-8001)
7. NEW AERATION TANK (T-1001)

EXISTING SEWER/RELOCATED SEWER
NEW PRESSURE PIPE
NEW GRAVITY PIPE

REV.	DATE	DRWN	CHKD	REMARKS
4	12/21			ADDED CONFINEMENT DIKES
3	12/15			CHANGED PER CLIENT DIKES REVIEW MEETING
2	11/9			CHANGED PER CLIENT REVIEW MEETING
1	11/3			CHANGED PER CLIENT REVIEW MEETING

DESIGNED BY: M. CEBALLOS
DRAWN BY: R. MEDRANO
BASIS GIVEN BY: K. FERGUSON
DRAWN GIVEN BY: J. SHERWOOD
APPROVED BY:
DATE: DECEMBER 2010

CDM

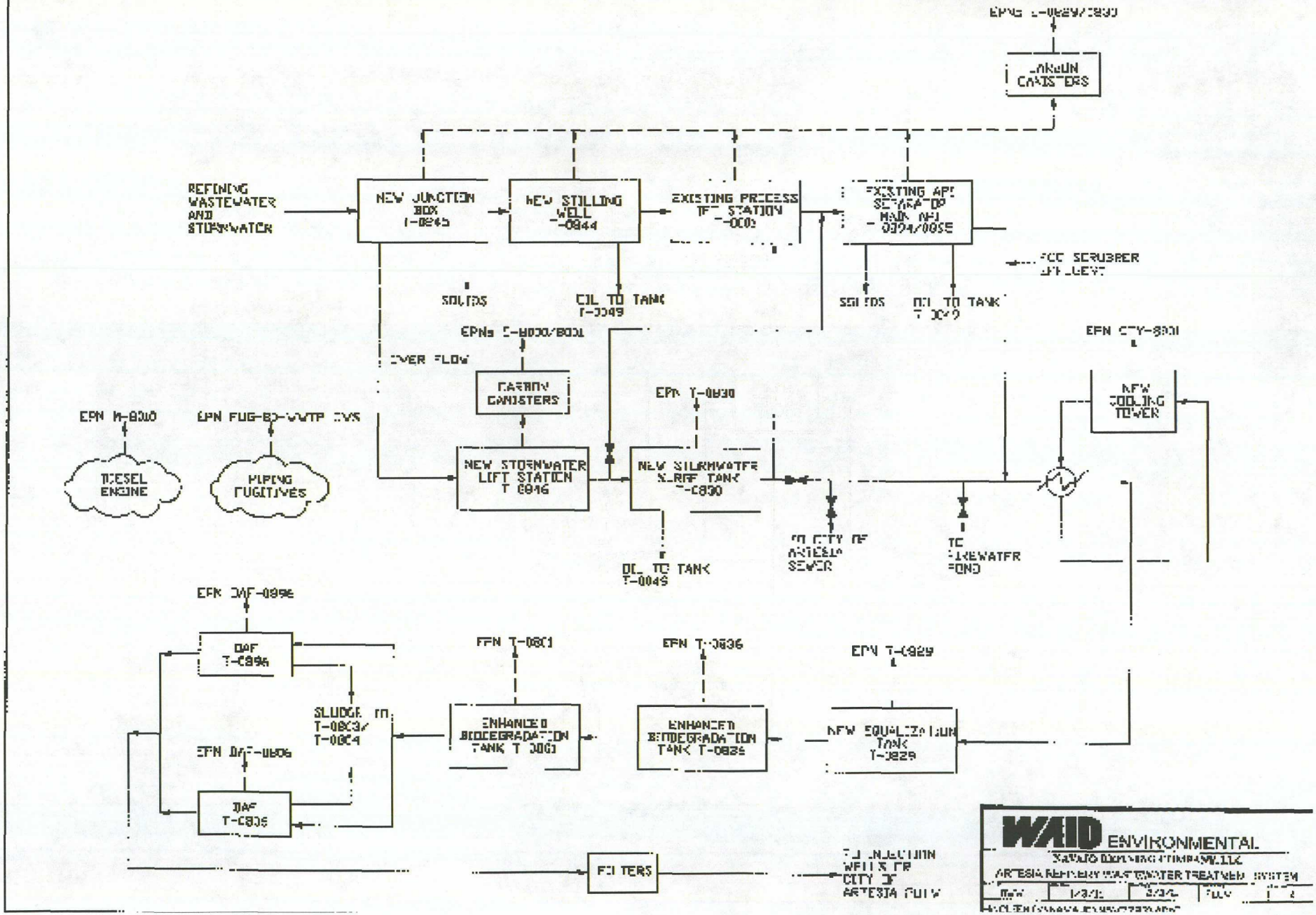
NAVAJO REFINERY
ARTESIA, NEW MEXICO
PHASE I WWTP

PRELIMINARY PLOT PLAN

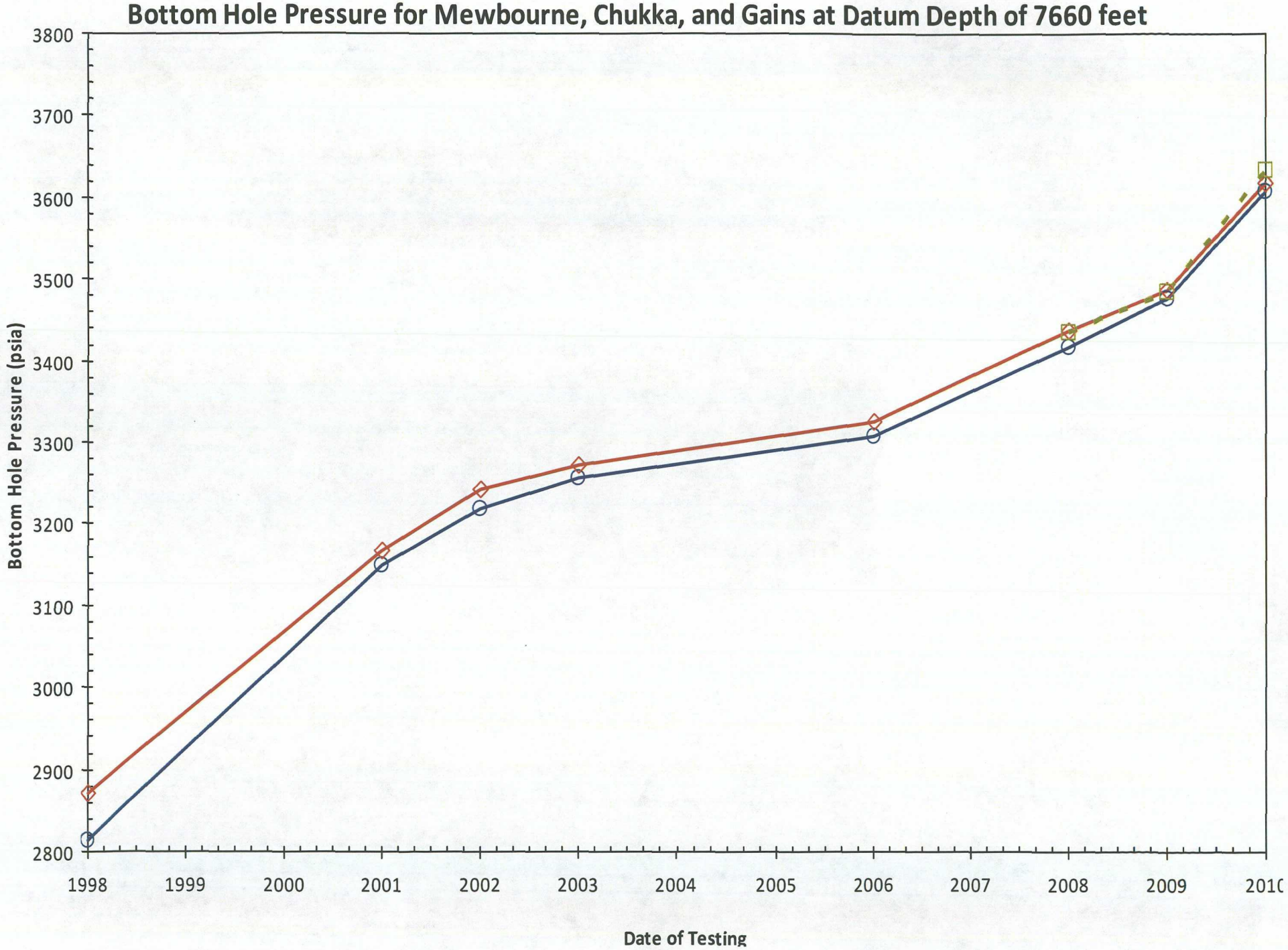
% ISSUED

DWG: G:\WO\38015\CSTPLAP2100.dwg
DATE: Jan 14, 2011 3:56pm
USER: mpenna
XREFS: LWARTESIA UG PIPE BACKUP CDM_2234 SLWARTESIA UG PIPE-REV

ARTESIA REFINERY WASTEWATER TREATMENT SYSTEM




Fall Off Test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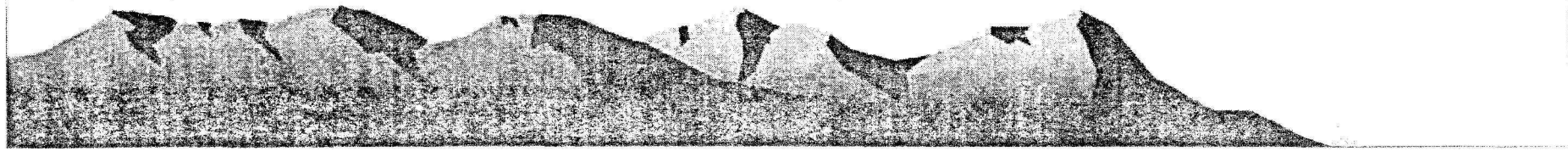
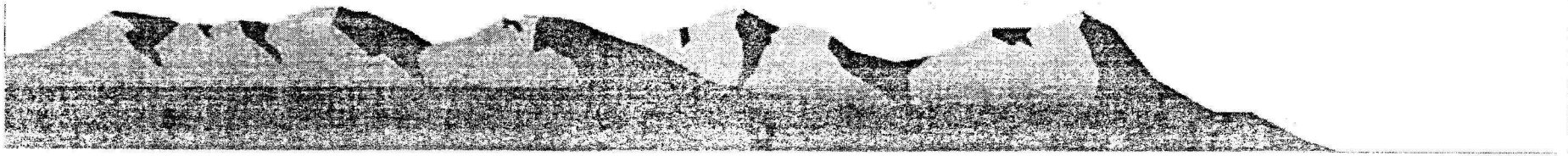
Navajo/OCD/NMED Meeting

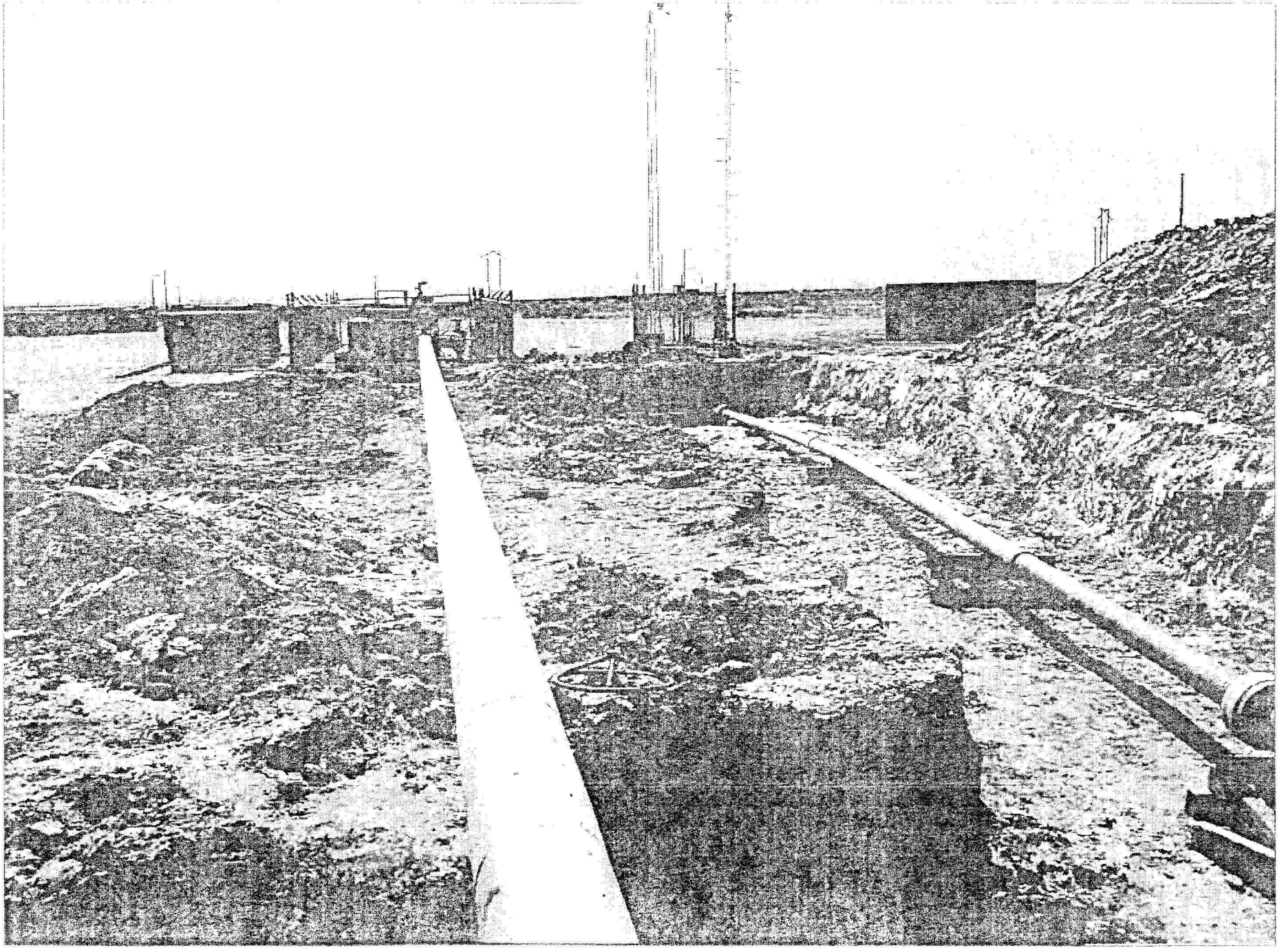
03/22/2011

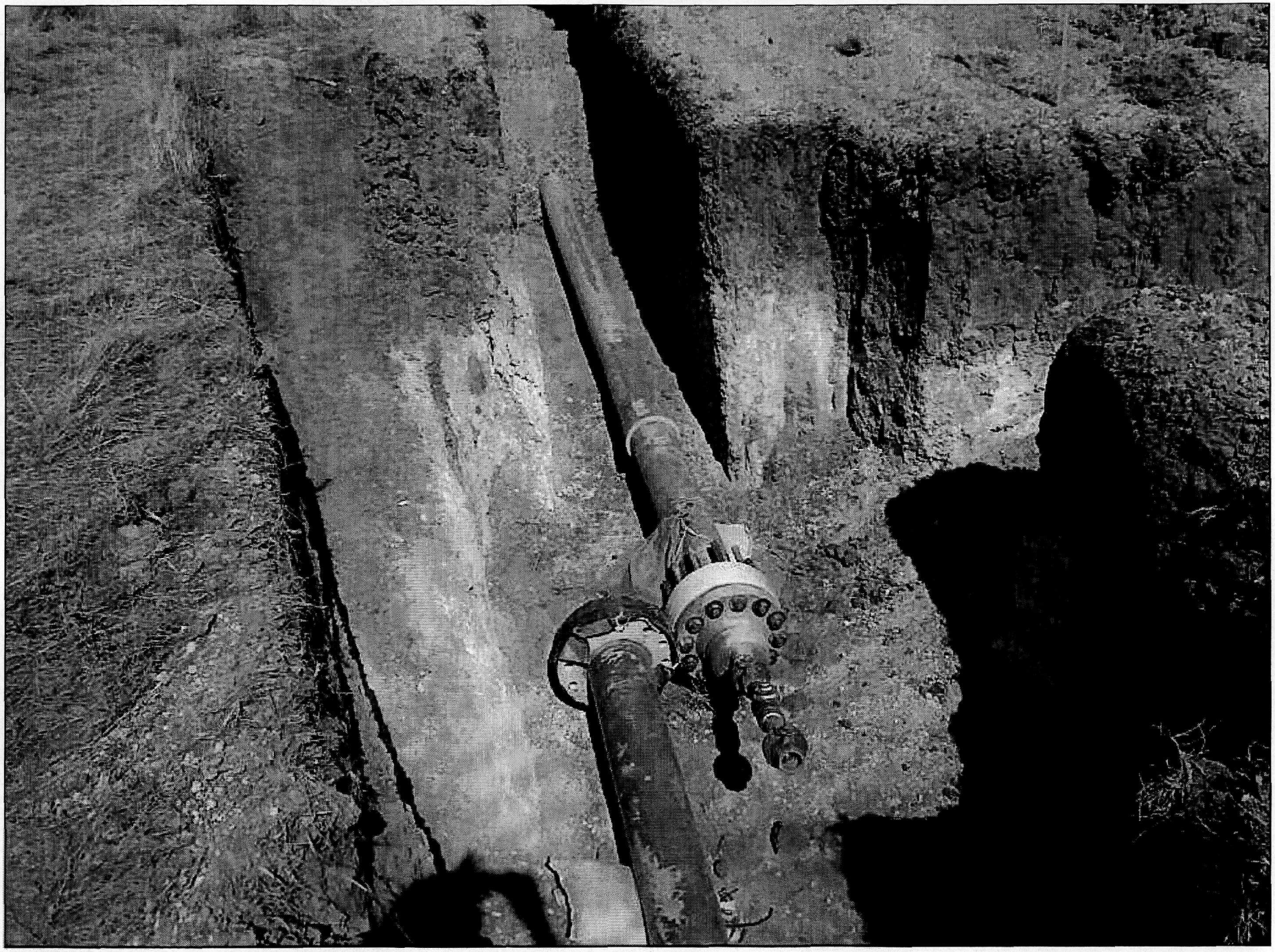


Effluent Line Replacement

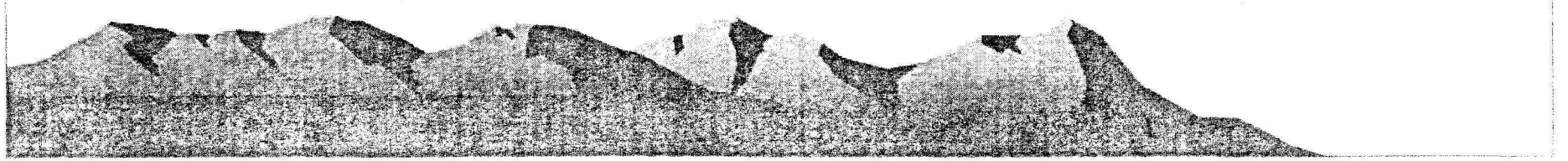


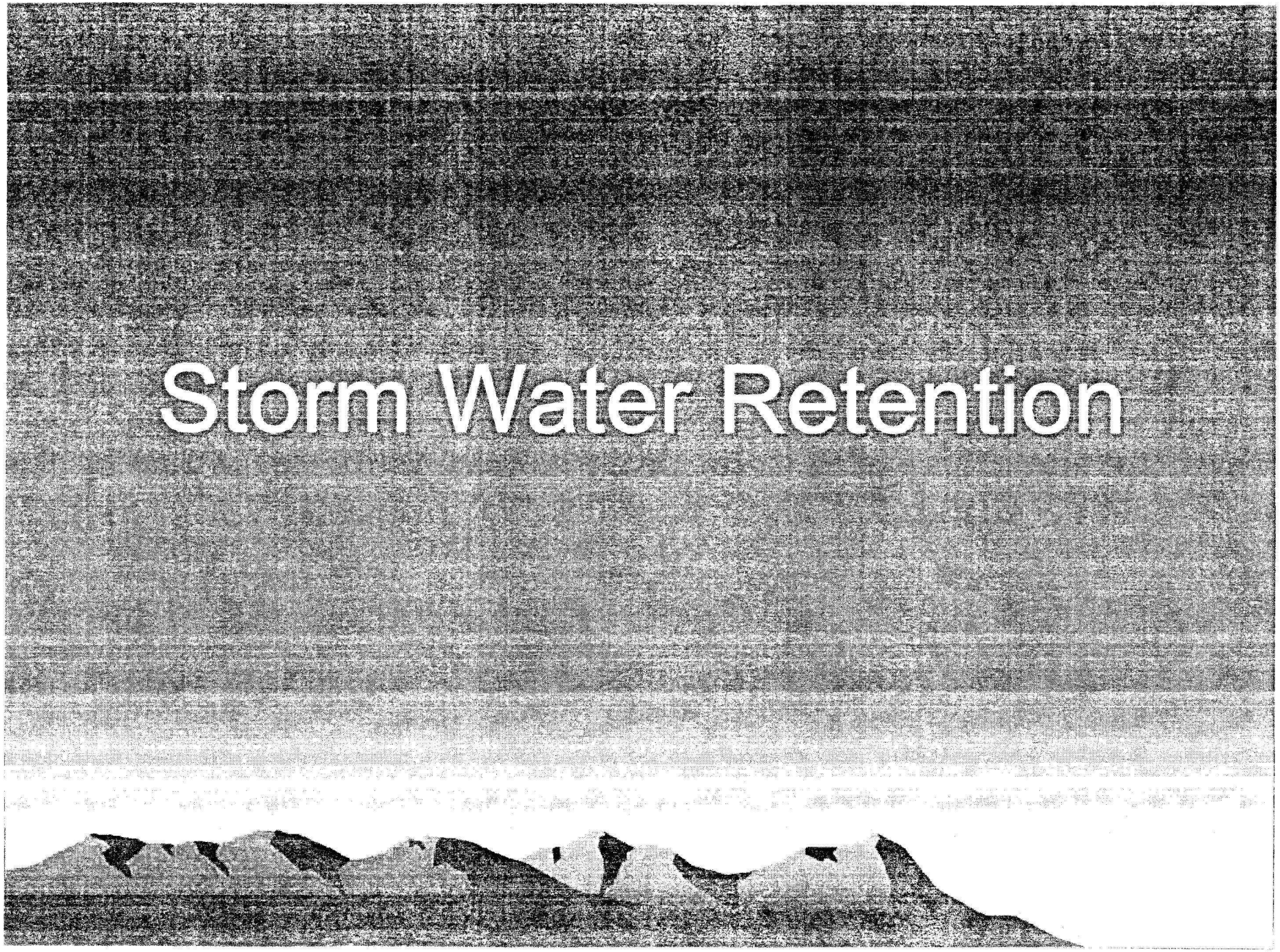

WARNING



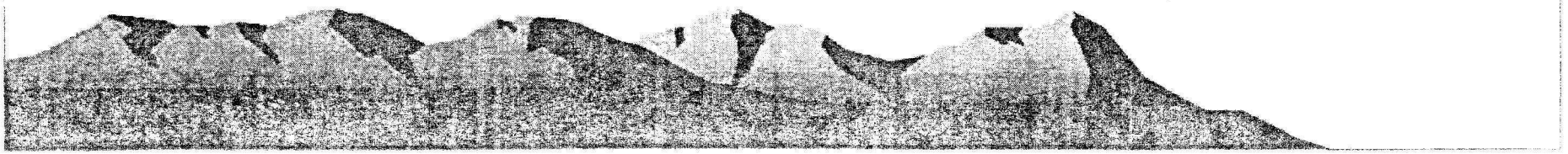


Scheduled for completion by mid April of this year

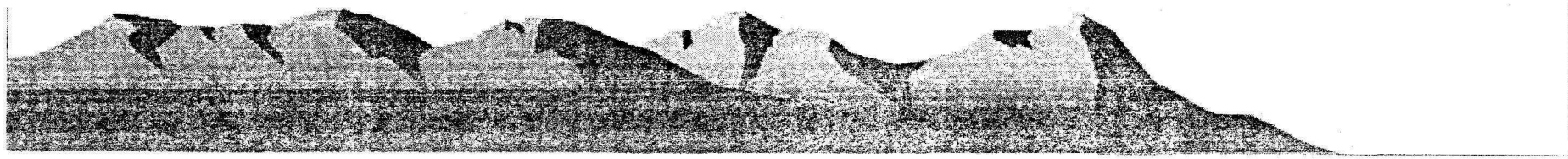



Storm Water Retention

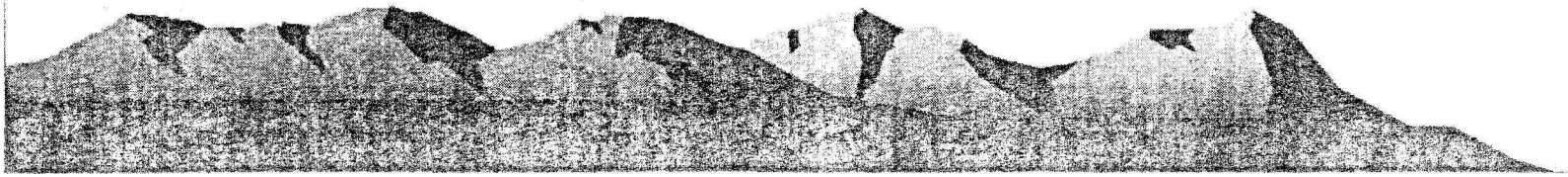
The project will authorize improvements to the Artesia Refinery's wastewater treatment plant (WWTP). These improvements are intended to provide additional capacity to handle storm water event surge flows and to increase biological activity in the aggressive biological treatment system. The project consists of:



- a new stilling well,
- an existing process lift station,
- an existing API oil/water separator (MAIN API),
- a new storm water lift station,
- a new 100,000 bbl external floating roof storage tank,
- a new cooling tower,
- a new 30,000 bbl wastewater equalization tank,

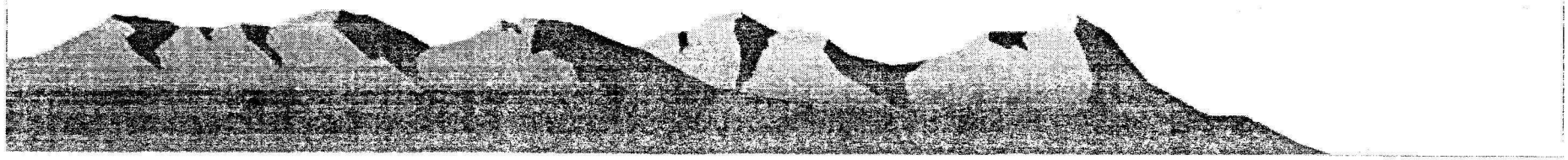


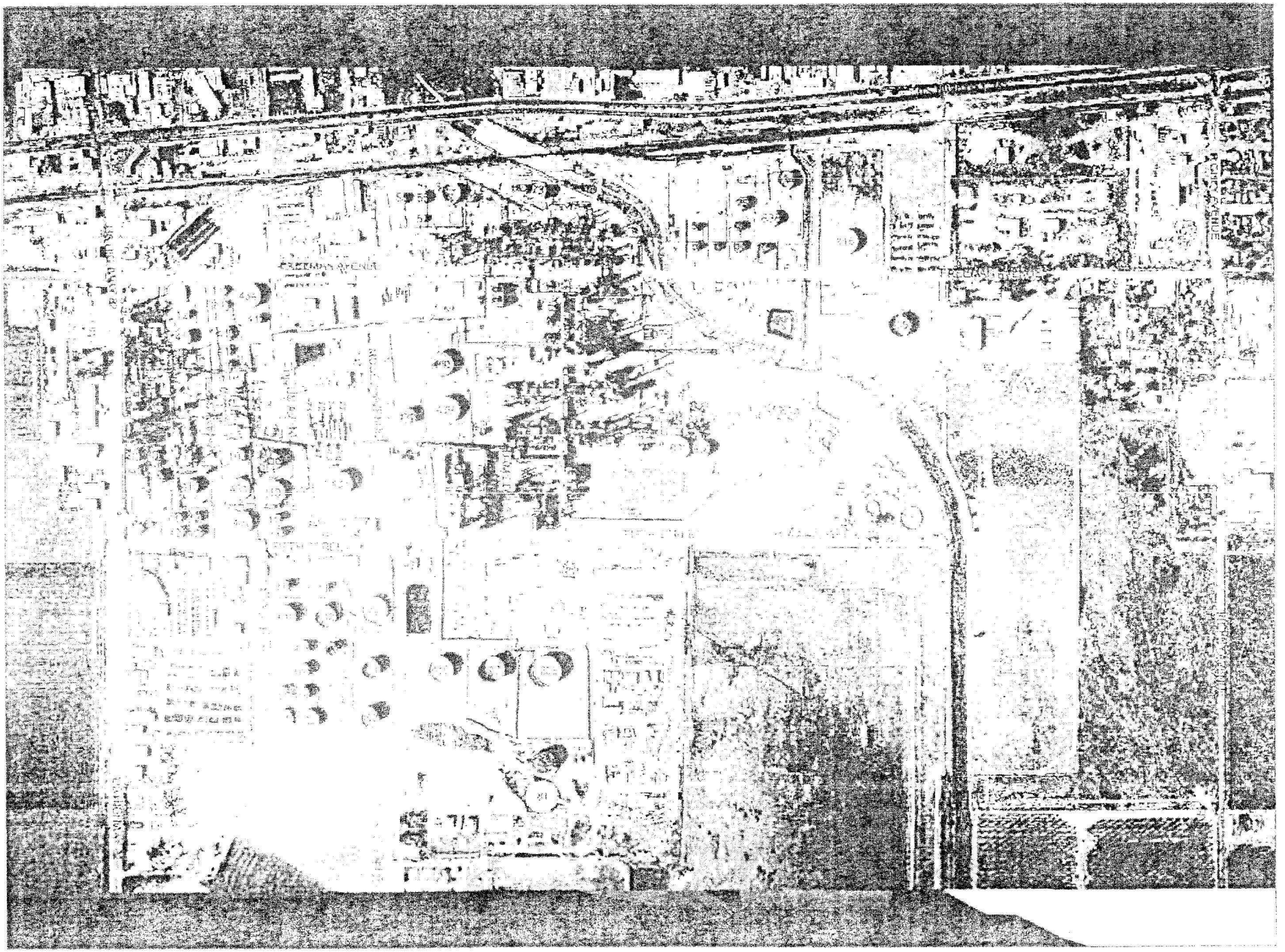
- existing (unmodified) enhanced biodegradation tanks,
- an existing (unmodified) dissolved air flotation (DAF) unit,
- an existing dissolved air flotation unit that is being put back in service,
- associated junction boxes and piping components,
- a new diesel engine driven storm water lift

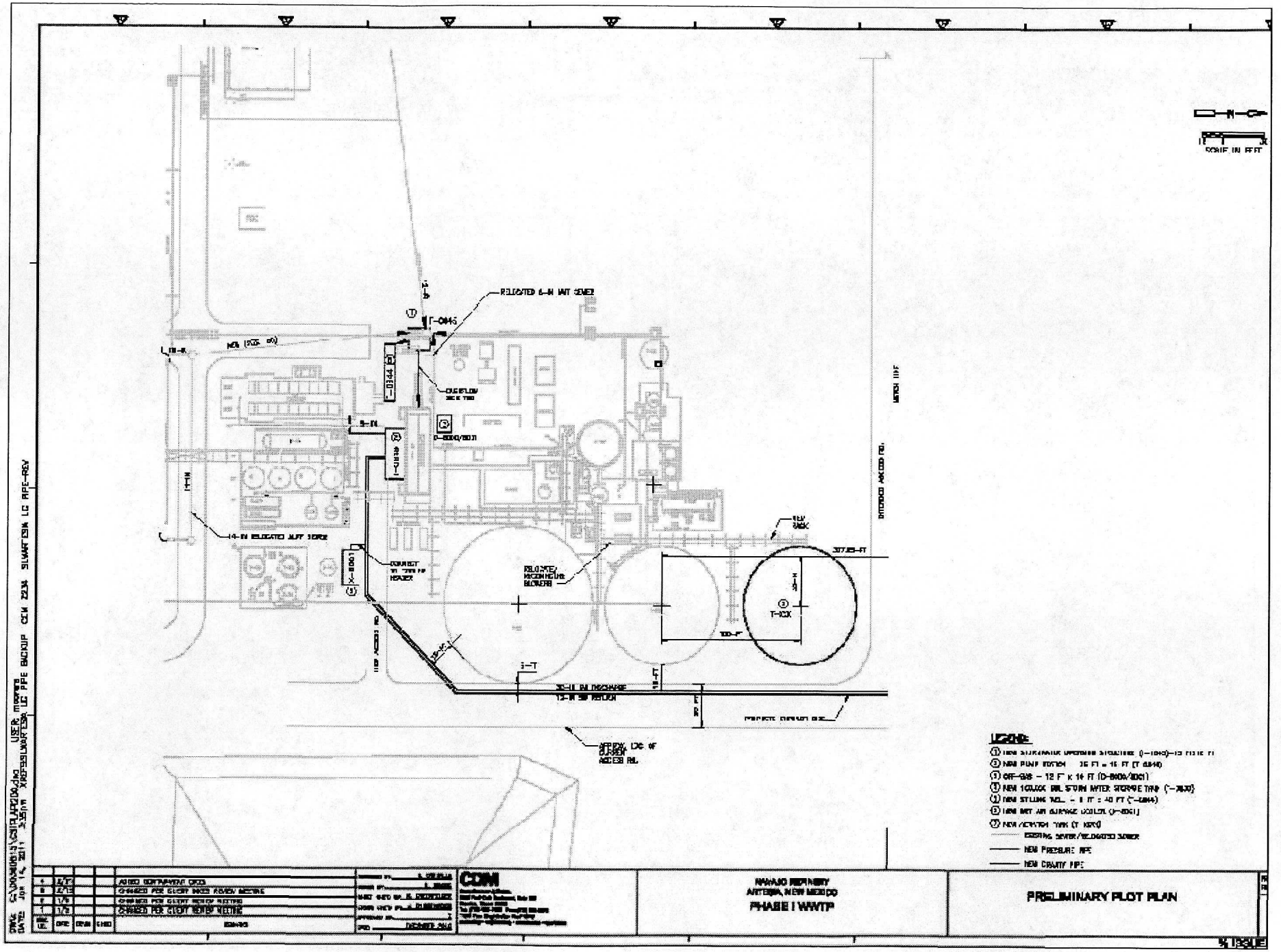


Working on detail design

Phase I scheduled to be completed by the end of the first quarter 2012







A	8/7		ADDED EQUIPMENT DATA	
B	7/15		CHANGED PER CLIENT INDEX REVIEW MEETING	
C	1/6		CHANGED PER CLIENT REVIEW MEETING	
1	1/6		CHANGED PER CLIENT REVIEW MEETING	
REV NO.	DATE	DRWN	CHKD	ISSUED

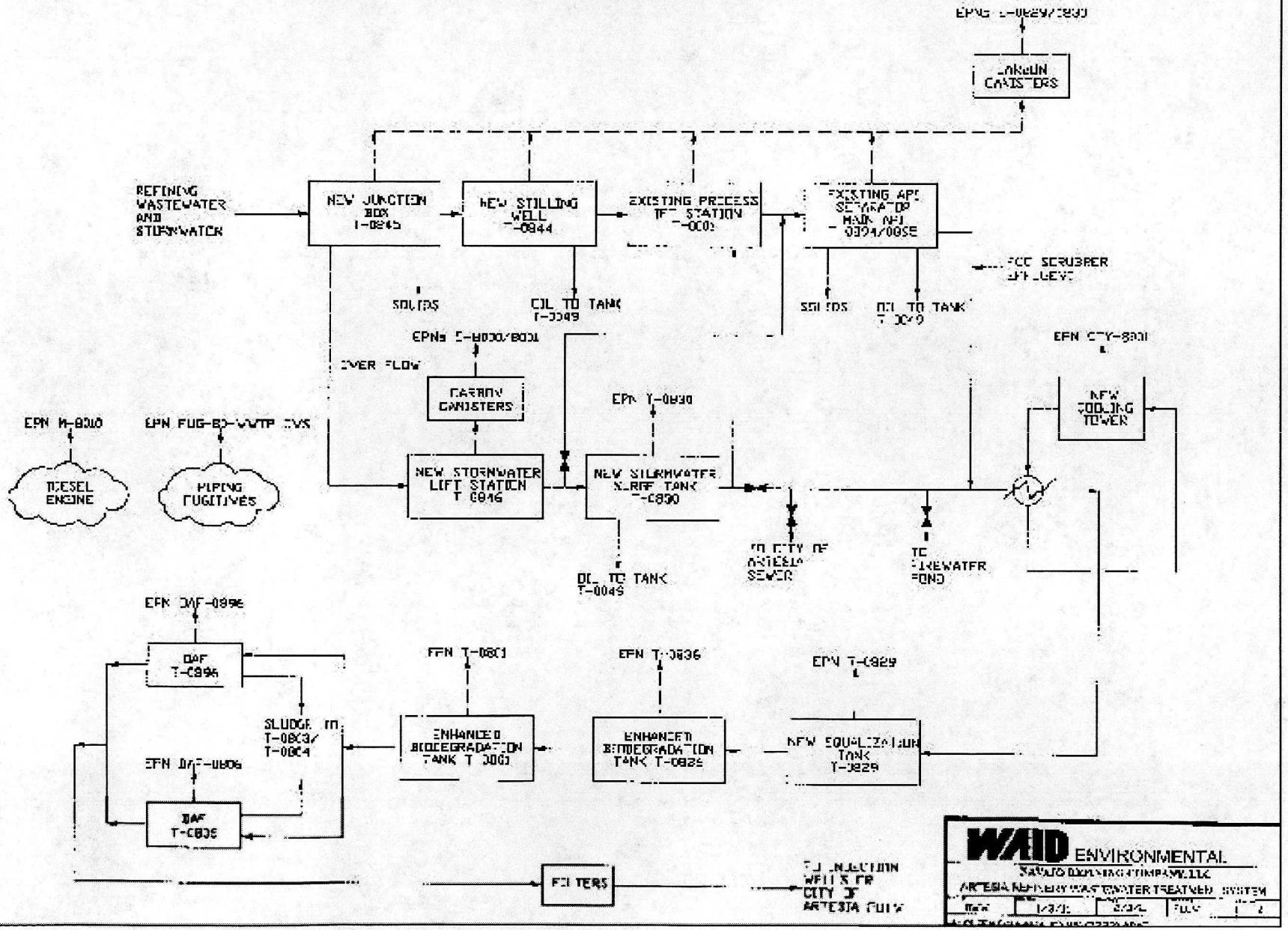
COM

NAVAJO REFINERY
ARTESIA, NEW MEXICO
PHASE I WWTP

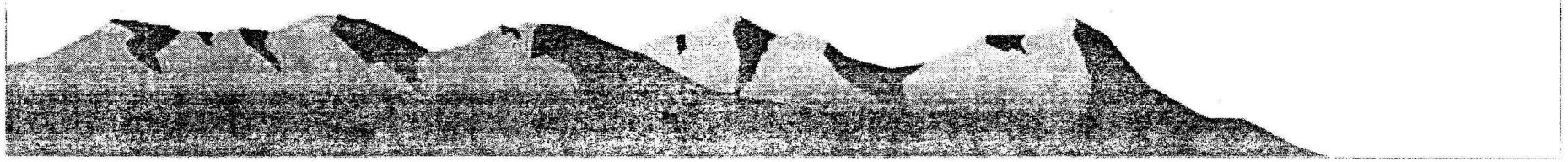
PRELIMINARY PLOT PLAN

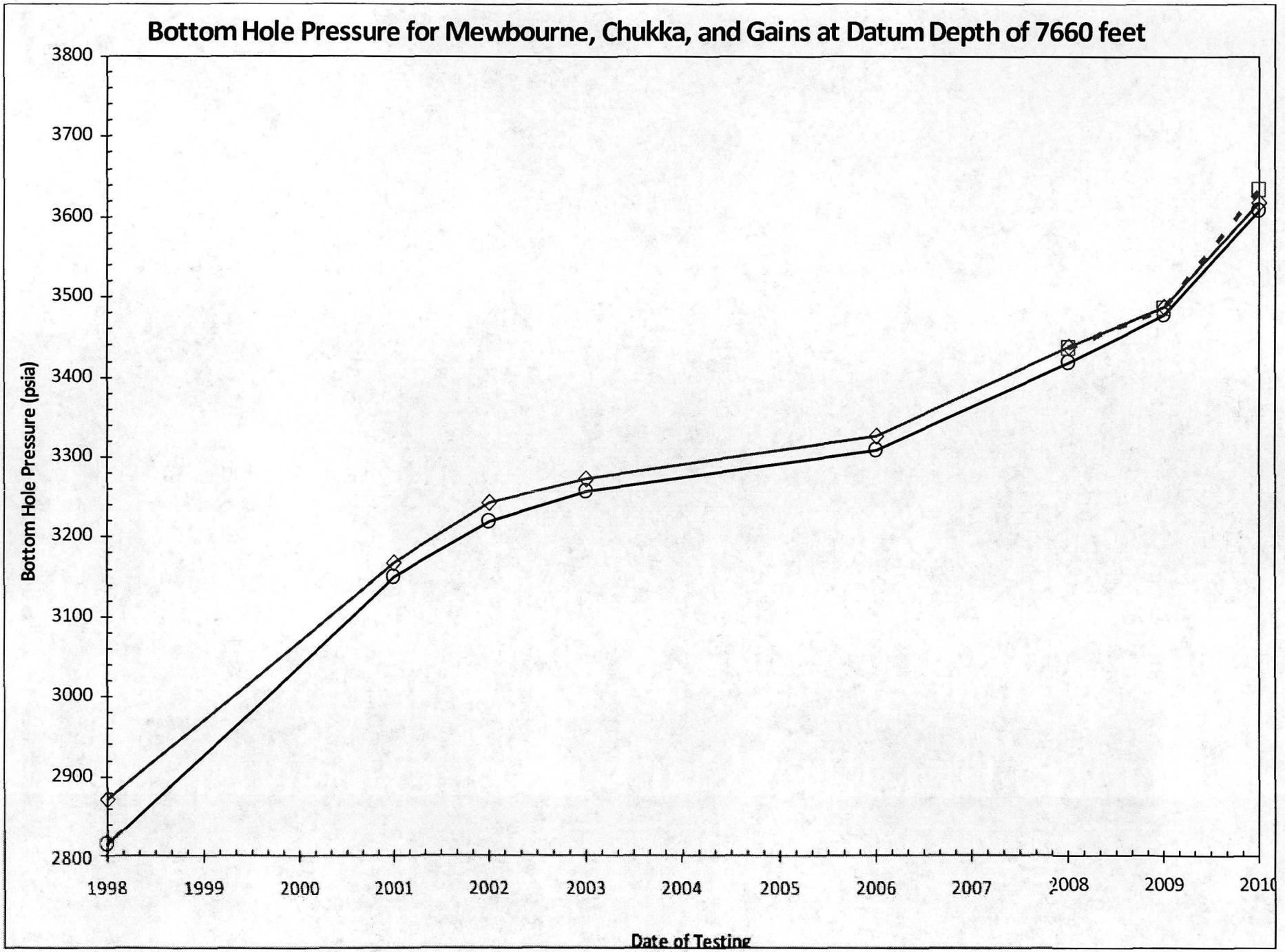
ISSUED

ARTESIA REFINERY WASTEWATER TREATMENT SYSTEM



Fall Off Test




Bottom Hole Pressure for Mewbourne, Chukka, and Gains at Datum Depth of 7660 feet
Bottom Hole Pressure (psia)
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900
2800
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
Date of Testing

The previous graph shows clearly that all three wells are in communication and supports Navajo's position that performing one fall off test per year is sufficient

Chavez, Carl J, EMNRD

Subject: Santa Fe mtg
Location: OCD Office

Start: Tue 3/22/2011 9:00 AM
End: Tue 3/22/2011 11:00 AM
Show Time As: Out of Office

Recurrence: (none)

Meeting Status: Accepted

Organizer: Lackey, Johnny

March 22, 2011
NMED/OCD Meeting Agenda

A. Effluent Line Replacement

1. Schedule for completion/in service
2. Progress (PowerPoint)

B. Storm Water Retention Project

1. Description (PowerPoint)
2. Schedule
3. Benefits
    a. Control storm water rates to API by diverting to surge tank.
    b. Allow retention, testing and discharge of storm water to the POTW vs. injection wells.

C. City of Artesia Pretreatment Standard

1. Navajo is in discussions with the City to develop a pretreatment standard. Navajo will work to improve water quality and plans to increase the volume of water to the city POTW.

D. Injection Wells Fall Off Test Requirements

1. One well per year
2. All 3 wells inject into the same formation
3. View graph

A brief PowerPoint presentation during discussion

****

Navajo would like discuss ongoing and planned projects at the Artesia Refinery regarding the Waste Water Treatment Plant, effluent line replacement, recovery system upgrade, underground line testing, tank leak detection and storm water containment.

Attending for Navajo will be: me, Darrell Moore, Michael Whatley, Vice President and Refinery Manager, Artesia, and Gary Fuller, Sr. Vice President, Refinery Operations, Holly Corporation.

Carl, we will need a meeting room with projector if possible. We should be finished by lunch.

Thanks.

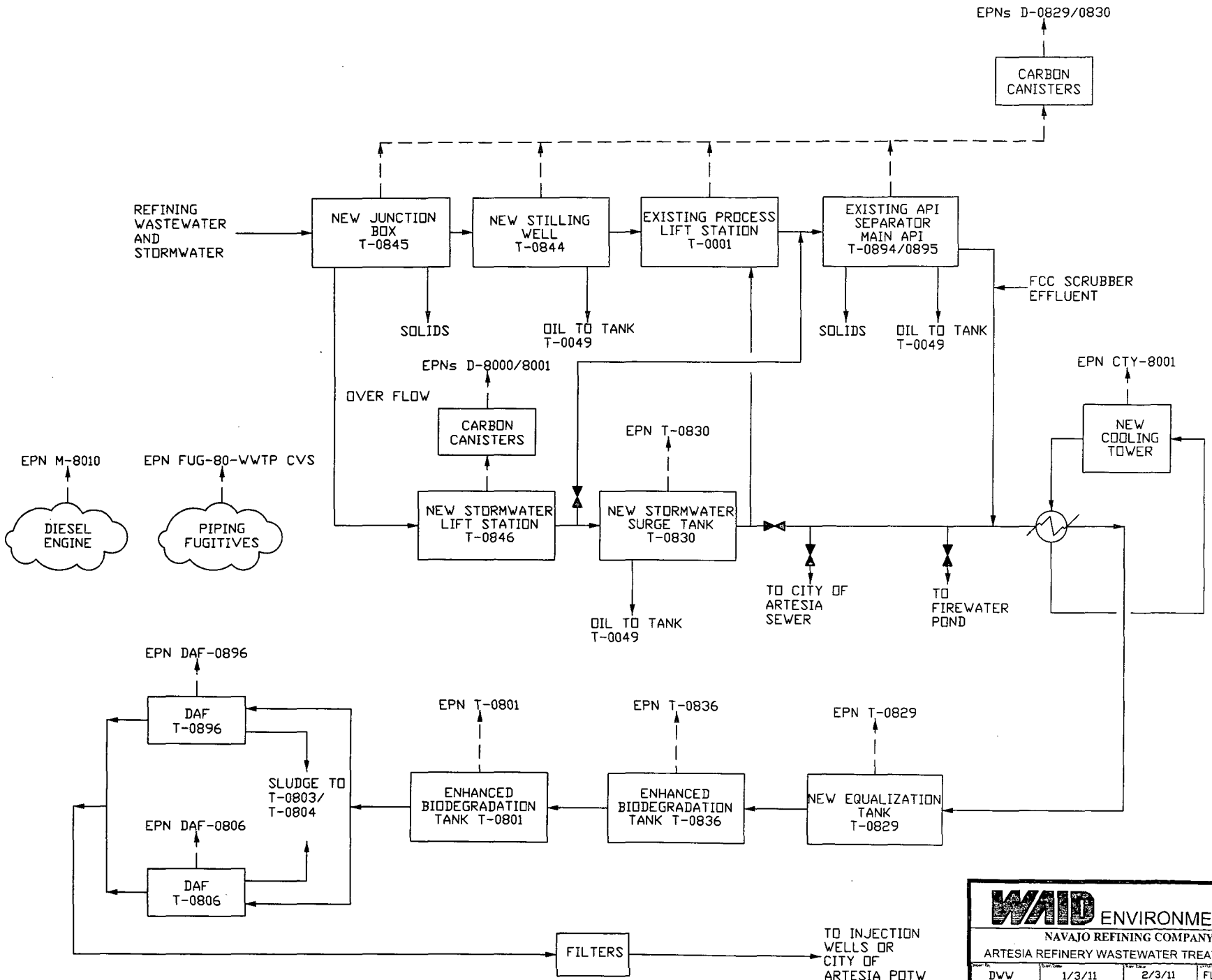
OCD - SF Conf. Rm.

Navajo Refining Company Mtg.

3/22/2011
10 - Noon

Name	Co.	ph.#	E-mail
Carl Chavez	OCD	505-476-3490	Carlj.Chavez@state.nm.us
Darrell Moore	Navajo	575-703-5058	darrell.moore@hollycorp.com
Michael Whatley	NRC	575-748-6743	Michael.whatley@hollycorp.com
Johnny Lackey	NAVAJO	575-746-5490	johnny.lackey@hollycorp.com
Hope Petrie	NWB	505-476-6045	Hope.monzeglio@state.nm.us
Dave Cobrain	NWB	505-476-6055	dave.cobrain@state.nm.us
Gary Fuller	Holly	972 689 9400 214 871 3431	Gary.Fuller@HollyCorp.com
David Jelmini	Holly	501-294-4509	dave.jelmini@hollycorp.com

ARTESIA REFINERY WASTEWATER TREATMENT SYSTEM



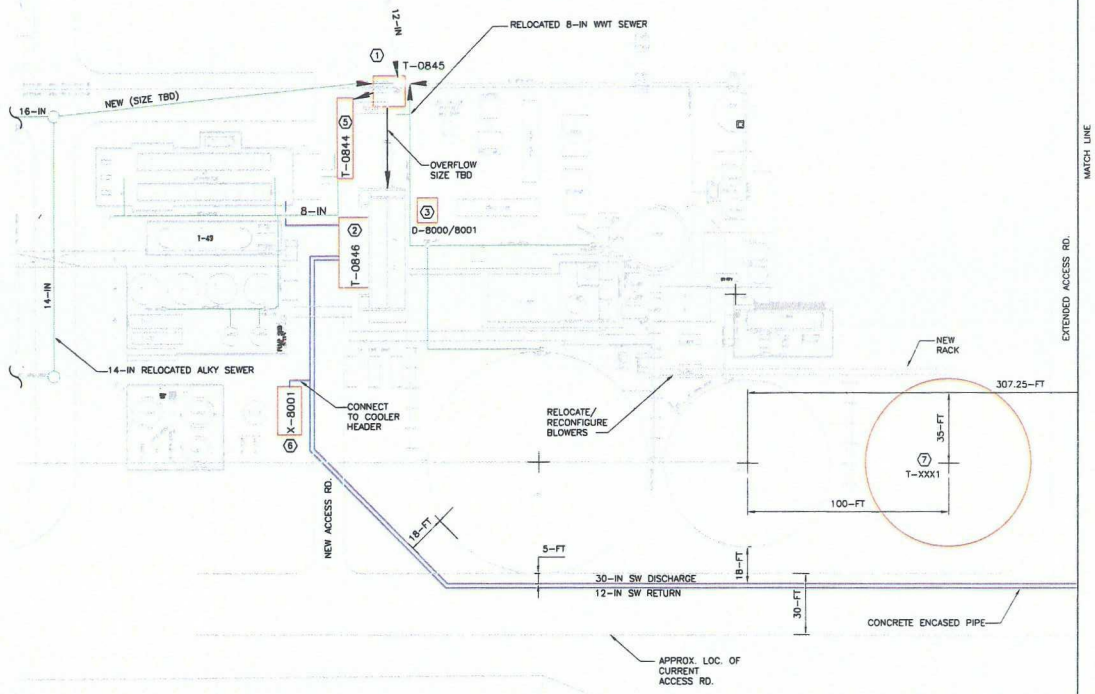
WAID ENVIRONMENTAL

NAVAJO REFINING COMPANY, LLC

ARTESIA REFINERY WASTEWATER TREATMENT SYSTEM

Drawn By	Date	Revised Date	Description	Rev. No.
DWW	1/3/11	2/3/11	FLOW	4

H:\CLIENTS\NAVAJO\NAV7783\ACAD



N

15 0 30

SCALE IN FEET

LEGEND:

1. NEW STORMWATER DIVERSION STRUCTURE (T-0845)-15 FTx16 FT
2. NEW PUMP STATION – 35 FT x 15 FT (T-0846)
3. OFF-GAS – 12 FT x 10 FT (D-8000/8001)
4. NEW 100,000 BBL STORM WATER STORAGE TANK (T-0830)
5. NEW STILLING WELL – 6 FT x 40 FT (T-0844)
6. NEW WET AIR SURFACE COOLER (X-8001)
7. NEW AERATION TANK (T-XXX1)

EXISTING SEWER/RELOCATED SEWER

NEW PRESSURE PIPE

NEW GRAVITY PIPE

REV NO.	DATE	DRWN	CHKD	REMARKS
4	12/21			ADDED CONTAINMENT DIKES
3	12/15			CHANGED PER CLIENT DIKES REVIEW MEETING
2	11/9			CHANGED PER CLIENT REVIEW MEETING
1	11/3			CHANGED PER CLIENT REVIEW MEETING

DESIGNED BY M. CARBALLA
DRAWN BY R. MOORE
SHEET CHK'D BY K. GREENFELDER
CROSS CHK'D BY J. CHRISTIANSEN
APPROVED BY X
DATE DECEMBER 2010

CDM
Camp Dresser & McKee
3050 Post Oak Boulevard, Suite 300
Houston, Texas 77056
Tel: (713) 423-7300 Fax: (713) 840-0173
TBPE Firm Registration No. F-3043
consulting · engineering · construction · operations

NAVAJO REFINERY
ARTESIA, NEW MEXICO
PHASE I WWTP

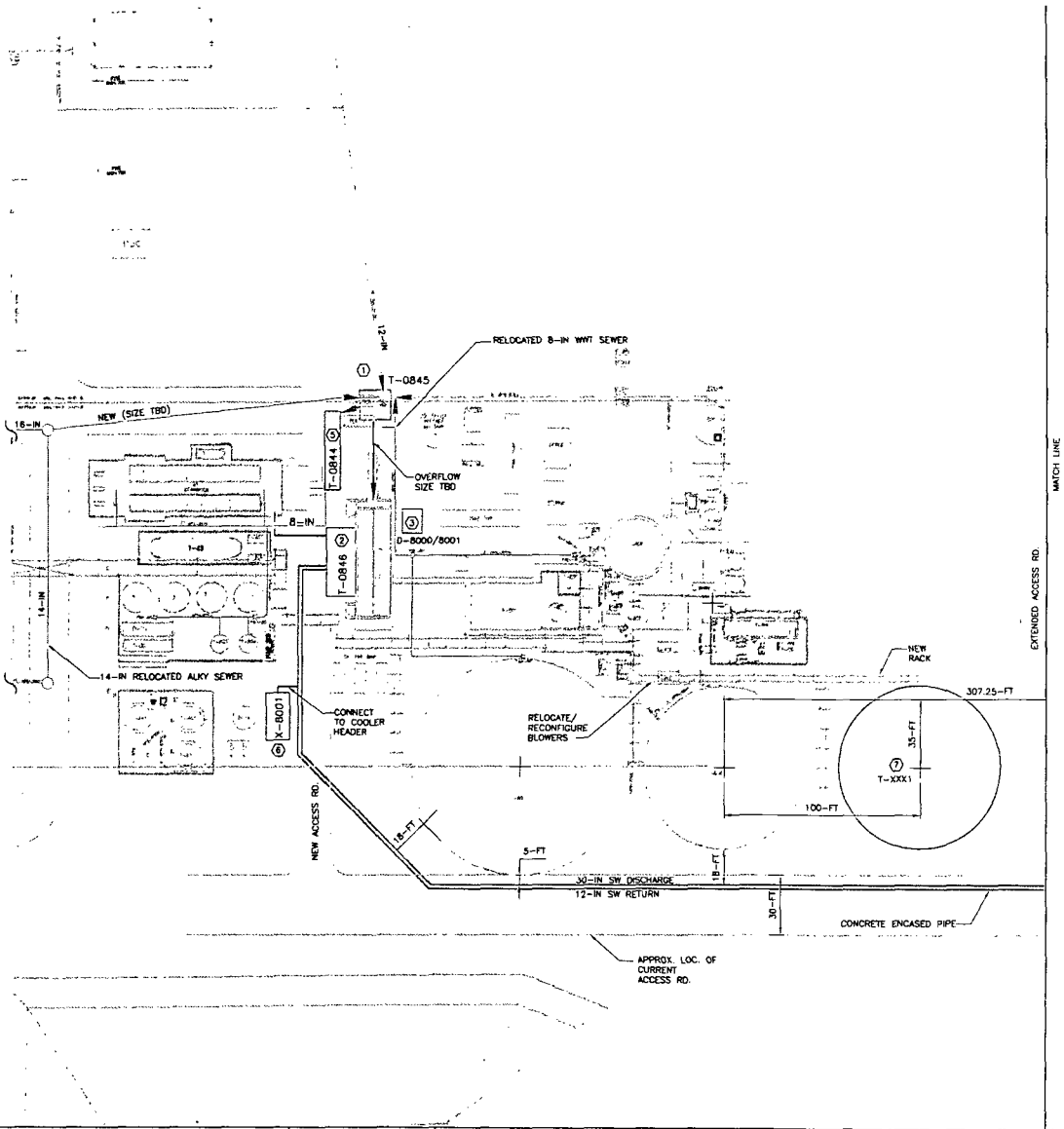
PRELIMINARY PLOT PLAN

PROJECT NO. 90538-79019
FILE NAME CSTPLAP1200

SHEET NO.
C-01

% ISSUED FOR REVIEW

DWG: C:\00360815\CSTPLAP1200.dwg USER moorera
DATE: Jan 14, 2011 3:35pm XREFS:SLWARTESIA UG PIPE BACKUP CDM_2234 SLWARTESIA UG PIPE-REV



LEGEND:

1. NEW STORMWATER DIVERSION STRUCTURE (T-0845)-15 FTx16 FT
2. NEW PUMP STATION – 35 FT x 15 FT (T-0846)
3. OFF-GAS – 12 FT x 10 FT (D-8000/8001)
4. NEW 100,000 BBL STORM WATER STORAGE TANK (T-0830)
5. NEW STILLING WELL – 6 FT x 40 FT (T-0844)
6. NEW WET AIR SURFACE COOLER (X-8001)
7. NEW AERATION TANK (T-XXX1)

EXISTING SEWER/RELOCATED SEWER
NEW PRESSURE PIPE
NEW GRAVITY PIPE

REV NO	DATE	ORIGN	CHKD	REMARKS
4	12/21			ADDED CONTAINMENT DIKES
3	12/15			CHANGED PER CLIENT DIKES REVIEW MEETING
2	11/9			CHANGED PER CLIENT REVIEW MEETING
1	11/3			CHANGED PER CLIENT REVIEW MEETING

DESIGNED BY: M. CARBALLA
DRAWN BY: R. MOORE
SHEET CHK'D BY: K. GREENFELDER
CROSS CHK'D BY: J. CHRISTIANSEN
APPROVED BY: X
DATE: DECEMBER 2010

CDM
Camp Dresser & McKee
3050 Post Oak Boulevard, Suite 300
Houston, Texas 77056
Tel: (713) 423-7300 Fax: (713) 940-0173
TBPE Firm Registration No. F-3043
consulting · engineering · construction · operations

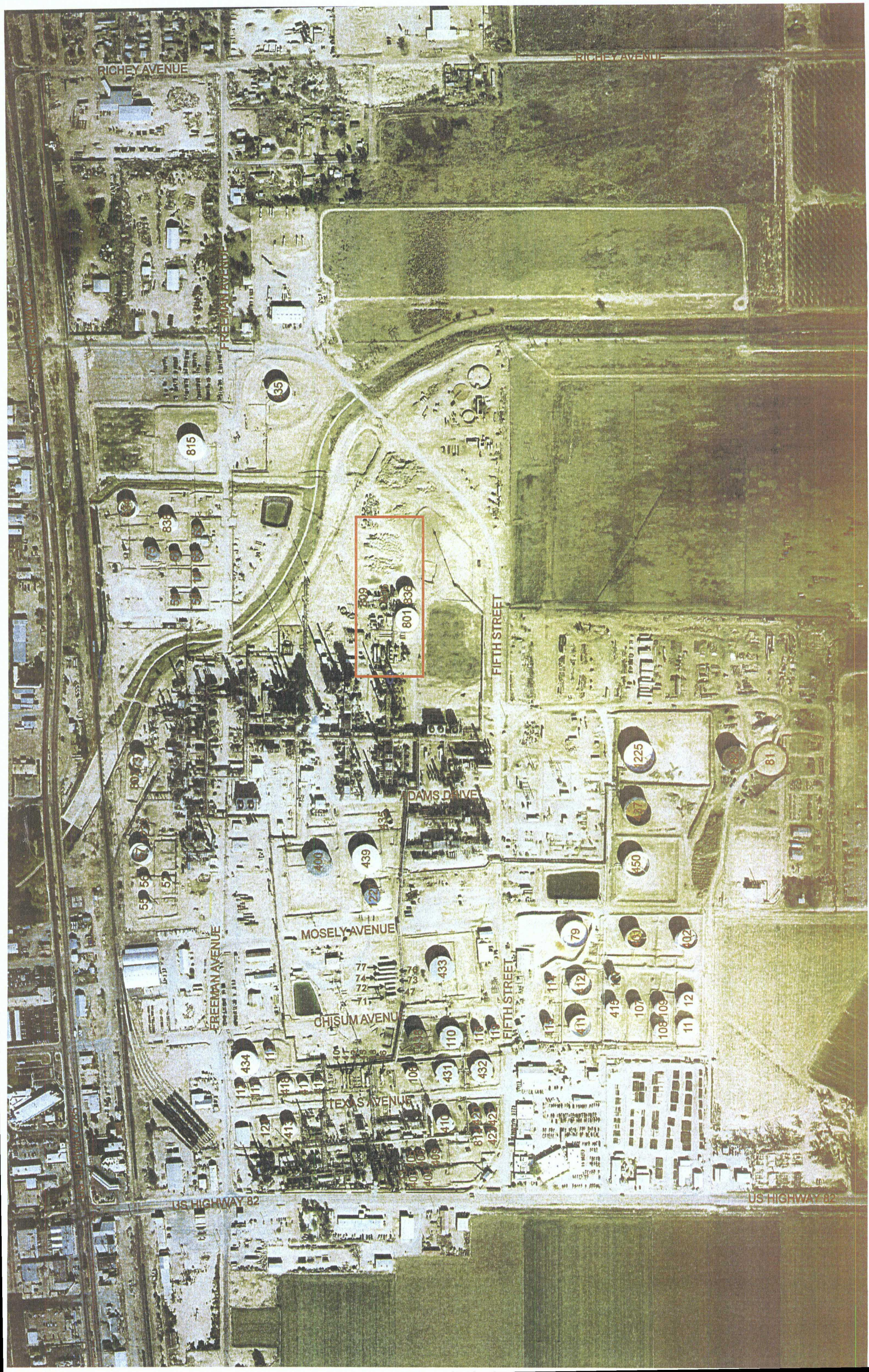
NAVAJO REFINERY
ARTESIA, NEW MEXICO
PHASE I WWTP

PRELIMINARY PLOT PLAN

PROJECT NO. 90538-79019
FILE NAME: CSTPLAP1200
SHEET NO. C-01

% ISSUED FOR REVIEW

DWG: C:\00360815\CS\PLAP1200.dwg USER: moorera
DATE: Jan 14, 2011 3:35pm XREFS:SLWARTESIA UG PIPE BACKUP CDM_2234 SLWARTESIA UG PIPE-REV


RICHEY AVENUE
RICHEY AVENUE
FREEMAN AVENUE
US HIGHWAY 285
ADAMS DRIVE
FIFTH STREET
MOSELY AVENUE
FREEMAN AVENUE
CHISUM AVENUE
FIFTH STREET
TEXAS AVENUE
US HIGHWAY 82
US HIGHWAY 82
US HIGHWAY 285

Chavez, Carl J, EMNRD

From: Lackey, Johnny [Johnny.Lackey@hollycorp.com]
Sent: Monday, January 24, 2011 11:05 AM
To: Chavez, Carl J, EMNRD; VonGonten, Glenn, EMNRD; Monzeglio, Hope, NMENV; Cobrain, Dave, NMENV
Cc: Whatley, Michael; Fuller, Gary; Moore, Darrell
Subject: NAVAJO MEETING

Hello Carl, Hope, Dave, and Glen:

Navajo would like to schedule a meeting with you in early February in Santa Fe, if we can get everyone together, to discuss ongoing and planned projects at the Artesia Refinery regarding the Waste Water Treatment Plant, effluent line replacement, recovery system upgrade, underground line testing, tank leak detection and storm water containment.

Attending for Navajo will be: me, Darrell Moore, Michael Whatley, Vice President and Refinery Manager, Artesia, and Gary Fuller, Sr. Vice President, Refinery Operations, Holly Corporation.

If you can propose some dates you will be available, I'll send out a meeting notice and agenda.

Thanks,

Johnny Lackey
Environmental Manager
Navajo Refining Company, L.L.C.
Office - 575-746-5490
Cell - 972-261-8075
Fax - 575-746-5451
Johnny.Lackey@hollycorp.com

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Wednesday, November 10, 2010 9:05 AM
To: Chavez, Carl J, EMNRD
Cc: Lackey, Johnny
Attachments: Artesia Septic Systems.pdf; Effluent Leaks.pdf; Lewis Lake Liner.pdf; Whaley Pond.pdf; Lewis Lake.JPG; Lewis Lake 2.JPG; Whaley Pond.JPG

Carl,

Our submittal to your requests from our meeting of October 6, 2010 is included. I have broken down the requests into the two Discharge Permits GW-014 and GW-028 and will address them in two separate emails. In your email of October 12, 2010 there are some misunderstandings regarding the two permits and I will point those out below.

NAVAJO ARTESIA REFINERY PERMIT GW-028

Section 14: Provide summary of the number and volume of underground sanitary tanks that were decommissioned and material and volume used during the process. Section 17(iv): Sanitary waste water and closure of underground tanks. OCD requests documentation verifying the number, tank volume, materials used, etc. to decommission tanks. OCD needs documentation that confirms work was actually performed. **Navajo decommissioned 9 septic tanks by knocking a 3" hole in the bottom of each tank and filling with "flowable fill" which is cement with a little more water added to make it more flowable. Each tank was filled to the top with "flowable fill" as per directons from NMED Liquid Waste Bureau. Attached above, labeled "Artesia Septic Systems" is all the supporting documentation that verifies the work was done.**

Section 16: OCD requests final reports with analytical data and photos verifying contaminated soils from releases at the effluent line were cleaned-up. **Attached above, titled "Effluent Leaks" is the documentation for these leaks including bottom hole samples, TCLP analysis, manifests of dirt hauled off and C-141's. There are still 4 bins from the most recent spill that have not been hauled yet because they were overfilled and can not be lifted. These bins will need to be lightened so they can be hauled. They will probably turn into 6 bins total. Also, attached above are three photos labeled "Clean Up at Effluent Leak" that show the area that has been cleaned up. All the leaks were in basically the same area.**

- **Section 17(i)** According to the operator, liners were placed in 2 of the 3 ponds with discharge permit allowing this to be completed by the expiration date of the permit.

  OCD requests details (i.e., engineering design and construction "as built" details, date installed and photos, etc.) and location of the ponds that were lined.

  The attachments above titled "Lewis Lake Liner" and "Whaley Pond" are the documentation for this section. Also included are photos of the two lined ponds. This same request is included in the Lovington Requests. There are NO ponds at Lovington.

- Section 20C(iii): Confirm that secondary containment was installed at the former waste water API or that the operator is working to schedule work to be completed before the expiration date (10/21/2011) of the permit. **To date, the secondary containment has not been installed in the waste water API but it will be added by October 2011.**

- Section 22: A "Recommendations" sections needs to be added to the Annual Report from now on. **This will be added**.

- *Section 24: The financial assurance (FA) deadline of 9/30/2009 was missed. OCD verified that the FA was for facility decommissioning and 30 year post ground water monitoring period. OCD requires that similar to the Lovington Refinery, the operator shall submit an FA estimate to the OCD by December 31, 2010 for OCD review and a determination of final bond amount to satisfy this section of the permit. A bond submittal shall be submitted within 1 month of the OCD final assessed amount.* **This will be done.**

OCD inquired about two potential spill locations from a recent Google Earth GIS view of the facility near Tank 1214 and southeast of MW-2. OCD Requests that the operator inspect these areas to verify that spills/releases exist or are not present in the field. The operator should respond to this item within 4 weeks of the meeting date or by COB on November 5, 2010. **This request is actually for a tank and monitor well at Lovington. It will be addressed in the Lovington Section.**

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

COMPLETION REPORT ON AUTHORIZATIONS

DEPARTMENT: **ENGINEERING**

DATE: **September 22, 2010**

AUTHORIZATION NUMBER: **NRC/10-C/042**

COST CENTER: **201140**

DATE AUTHORIZATION APPROVED..... **06/03/10**

DATE WORK COMPLETE (IN SERVICE DATE)..... **08/27/10**

(IN-SERVICE DATE MEANS THE DATE THE PROJECT WAS ACTUALLY PLACED IN SERVICE)

DESCRIPTION OF WORK: Project will include the following:
1. Installation of sanitary sewer lift stations at the Main Control Rooms in the North and South plant. Approximately 1300 lf od 2" SDR-11 piping will be intalled to tie the lift stations into the city of Artesia's sanitary sewer system. Installation of approximately 375 lf of 4" PVC to tie the Blender Control Room lavatory facilities into the city of Artesia's sanitary sewer system.
2. Decommission all abandoned lavatory facilities and septic tank systems.
3. Install all needed electrical for the two lift stations. All conduit, wiring, and hardware needed for electrical work is included.

LOCATION OF WORK: **ARTESIA, NM**

FINAL COST (To be submitted in same format as Authorization)

EQUIPMENT CODE	DESCRIPTION		ESTIMATED COST	ACTUAL COST	DIFFERENCE
1	CIVIL	(L)	125,000.00	187,153.66	(62,153.66)
		(M)	55,000.00		55,000.00
2	ELECTRICAL	(L)	10,000.00	18,045.02	(8,045.02)
		(M)	4,000.00		4,000.00
3	WASTE DISPOSAL	(L)	10,000.00	175.23	9,824.77
		(M)			
4	CONTINGENCY	(L)	26,000.00		26,000.00
		(M)	10,000.00		10,000.00
		TOTALS	$240,000.00	$205,373.91	$34,626.09

XC: LD/ORIGINAL, PT/HOLLY,

DISPOSITION OF EXPENDITURES

ADD TO INVESTMENT ACCT. NO		205,373.91
ADD TO INVESTMENT ACCT NO		
ADD TO MAINTENANCE ACCT NO		
ADD TO MAINTENANCE ACCT NO		
	TOTAL	$205,373.91

REMARKS CAPITALIZATIONS

APPROVAL SIGNATURES

JOHN ROBERSON 10/13/10
SPONSOR

DEPARTMENT HEAD 10/13/10

MICHAEL WHATLEY
MANAGER

Layout	/RHONDA2			line item	
Object	PRJ NRC/10-C/042			FACILITY SEWER SYSTEM UPGRADE	
Cost Element	51910200	To	66990100	Purch Cash Discounts...	
Posting Date	*	To	*		

08/24/2010	[redacted]	2000	NRC/10-C/042.141.1	64110100	Maintenance Srvcs	173,025.28	08/19/2010	WO 492373-20	CIVIL	GILES INC	BKPF	RFBU	CIVIL	COIN
09/01/2010	[redacted]	2000	NRC/10-C/042.141.1	64110100	Maintenance Srvcs	14,128.38	08/24/2010	WO 492373-30	CIVIL	GILES INC	BKPF	RFBU	CIVIL	COIN
*			NRC/10-C/042.141.1			187,153.66							CIVIL	
09/16/2010	[redacted]	2000	NRC/10-C/042.145.2	64110100	Maintenance Srvcs	18,045.02	09/14/2010	WO 492374-20	ELECTRICAL	LOUDON ELECTRIC LLC	BKPF	RFBU	ELECTRICAL	COIN
*			NRC/10-C/042.145.2			18,045.02							ELECTRICAL	
09/02/2010	[redacted]	2000	NRC/10-C/042.141.3	64110100	Maintenance Srvcs	177.00	08/25/2010	WO 492375-20	WASTE DISPOSAL	DEMAREES PUMPING SERVICE	BKPF	RFBU	WASTE DISPOSAL	COIN
09/30/2010	[redacted]	2000	NRC/10-C/042.141.3	51910200	Purch Cash Discounts	1.77-	10/05/2010	I1		Sales Cash Discounts	BKPF	RFBU	WASTE DISPOSAL	COIN
*			NRC/10-C/042.141.3			175.23							WASTE DISPOSAL	
**						205,373.91								

AUTHORITY FOR EXPENDITURE (AFE)

AFE Title: Facility Sewer System Upgrade

Company Name: NRC - Navajo Refining Company

Physical Location: Artesia

Start Date: 6/1/2010 **End Date:** 7/30/2010

Original Authorization Amt: $240,000
(Only type in the amount above if this is a supplemental AFE, otherwise, this field will be automatically populated using the totals from the cost details tab)

Supplemental Amount:

Total Amount Authorized: $240,000

Project No: NRC/10-C NRC/10-C/1042

Document Date: 5/27/2010

Click to choose Original or Supplemental: Original

Type of AFE: C: Capital

Company No: 2000

Cost Center No: 201140 **Profit Center:** 20000

Plant No. ~~2900~~

Project Sponsor: John Roberson

Brief Description of Project (Add attachments if necessary):

Project will include the following:

1. Installation of sanitary sewer lift stations at the Main Control Rooms in the North and South Plant. Approximately 1300 lf of 2" SDR-11 piping will be installed to tie the lift stations into the city of Artesia's sanitary sewer system. Installation of approximately 375 lf of 4" PVC to tie the Blender Control Room lavatory facilities into the city of Artesia's sanitary sewer system.
2. Decommission all abandoned lavatory facilities and septic tank systems.
3. Install all needed electrical for the two lift stations. All conduit, wiring, and hardware needed for electrical work is included

Project Justification (Add attachments if necessary):

Navajo is currently phasing out the use of existing septic systems in the Artesia refinery. There are three new sewer lines that need to be installed in order to accomplish this. All three of the lines will tie into existing city sewer lines that are located in the refinery. There are two lines coming from the Main Control Rooms that require the use of lift stations due to the contour of the surrounding area. The remaining line coming from the Blender Control Room will be a gravity flow sanitary sewer line. Once the new sewer lines are tied into the city's sewer system the existing lavatories and septic systems will be decommissioned. The existing septic systems will be decommissioned by rupturing the bottoms and filling them with flowable fill. The dollar amount given in this AFE covers non hazardous waste disposal only.

Click to choose Yes or No:

Is this project provided for in the current budget? Yes If so, enter amount: $250,000

Is this project constructed on or acquiring company owned land/ROW? Yes

Does this project include an asset retirement obligation (ARO)? No

Does this project require removal of hazardous materials? No

Accounting Review for Proper Classification? No

Date Sent to Data Integrity Group:

Project Approvals

Sponsor Approval: John Roberson 6/3/10
Signature
John Roberson
Printed

Department Head Approval: 6/3/10
Signature
Jeff Schmaltz
Printed

Manager Approval: Michael Whatley
Signature
Michael Whatley
Printed

VP/President Approval: N/A
Signature
Printed

Department Review of Project

Department	Initials	Date	Required
Accounting	EE	6.9.10	X
Treasury			X
Legal			X
Operations			X
Executive	N/A	6/9/10	X
HSAE	NW	6/9/10	X

Erin Reed 6.9.10

Jessica Dr

6-9-10

NRC/10-C/042

AUTHORITY FOR EXPENDITURE (AFE)

AFE Title: Facility Sewer System Upgrade — Type of AFE: O. Capital

Company Name: NRC - Navajo Refining Company — Company No.: 2000

Document Date: 5/27/2016 — Cost Center No.: 201100 — Plant No.: 2000

LEVEL	WBS LINE ITEM (Level) Base 1	2	3	DESCRIPTION	FERC CODE 6	7	LABOR	MATERIAL	TOTAL
	NRC/10-C/	041		Refinery Asset - Unit 46					
2			1	Civil 492373			$ 120,000	$ 55,000	$ 180,000
2			2	Electrical 492374			$ 10,000	$ 4,000	$ 14,000
2			3	Waste Disposal 492375			$ 10,000		$ 10,000
2		090		Contingency 492376			$ 30,000	$ 10,000	$ 40,000
									subtotal 204,000
				TOTALS (rounded to the nearest hundred)			$ 171,000	$ 69,000	$ 240,000

1 of 1

GILES
INCORPORATED

P.o. Box 390
Artesia, NM 88211-0390
Office # (505) 748-2142
Fax # (505) 748-2142
NM License # 81259

8667

Navajo Refining Co.
P. O. Box 159
Artesia, NM 88211-0159
Attn: John Roberson

April 12, 2010

ESTIMATE

We propose to furnish labor, material, equipment, supervision and all things necessary, except as noted below, to install (1) Sanitary Sewer Lift Station at North Plant Main Control Room, approx. 650 lf of 2" SDR-11 piping, and tie into existing 4" PVC sewer line located on the North side of Moseley Avenue.

Install (1) Sanitary Sewer Lift Station at the South Plant Main Control Room, approx. 650 lf of 2" SDR-11 piping, and tie into existing 4" PVC sewer line located on East side of Freeman Street.

Install approx. 375 lf of 4" PVC piping from Oil Movements Control Building and tie into existing 6" sewer line located on East 5th Street near Electrical shop in order to replace existing septic systems with Gravity Flow Sanitary Sewer Line.

Decommission (9) septic tanks by knocking a 3" diameter hole in bottom of tank floor and filling tanks with flow fill as instructed. Also remove existing toilets and urinals at locations listed below:

Central Control Room
FCC Operator Shelter (Pig Pen)
Pipeline Office Building
Shift Foreman's Office
Blender Control Room
TCC Operator Shelter
S.P. Main Control Room
West Crude Comfort Station
N.P. Comfort Station (orange doors)

Replace approx. 2000 ft2 of asphalt paving on Texas St. and sewer line at Oil Movements (Blender) Building.

FOR THE SUM OF: $ 161,423.00 NMGRT

Notes: Any underground obstructions or unsuitable soil conditions encountered would be dealt with at the owner's direction and expense.
Does not include electrical wiring for lift station

Thank You

Thomas S. Giles
Giles Incorporated
NM #81259

Accepted by,

Navajo Refining Co.

GILES
INCORPORATED

P.o. Box 390
Artesia, NM 88211-0390
Office # (505) 748-2142
Fax # (505) 748-2142
NM License # 81259

8999

Navajo Refining Co.
P. O. Box 159
Artesia, NM 88211-0159
Attn: John Roberson

July 13, 2010

PROPOSAL

Due to unforeseen underground obstacles it is no longer possible to install a gravity fed Sanitary Sewer line at your Blender product movement building. However, we are prepared to install a new Lift Station and 2" SDR-7 Poly-pipe in order to provide bathroom services at this time.

FOR THE SUM OF: $ 13,181.00 plus NMGRT

Notes: Does not included electrical required for pumps and alarms.

Thank You

Thomas S. Giles
Giles Incorporated
NM #81259

Accepted by,
Navajo Refining Co.
7/15/10

JHK - 1044 11

Loudon Electric LLC 2
PO Box 780
Artesia, NM 88211-0780

Invoice

3172

SCANNED
SEP 16 2010

Date: 9/14/2010

Bill To
NAVAJO REFINING CO Attn: Vendor Payables Group PO Box 1490 Artesia, NM 88211-1490

P.O. Number	Project	Terms
95151	6110-Sewer System Upgrade	Due on receipt

Quantity	Item Code	Description	Price Each	Serviced	Amount
	AS PER BID	Sewer System Upgrade - Blender	1,500.00		1,500.00T
	AS PER BID	All electrical to Power Lift Station of Sewer System Upgrade	3,720.00		3,720.00T
	AS PER BID	CCR Control Room Lift Station conduit, breakers, etc...	4,819.00		4,819.00T
	AS PER BID	South Plant Control Room Lift Station conduit & skid treater	6,796.00		6,796.00T
					16,835.00

"REC'D IN AP"
SEP 15 2010

Sales Tax (7.1875%)	$1,210.02
Total	$18,045.02
Payments/Credits	$0.00
Balance Due	$18,045.02

John Roberson
9/22/10

GILES
INCORPORATED

P.o. Box 390
Artesia, NM 88211-0390
Office # (505) 748-2142
Fax # (505) 748-2142
NM License # 81259

"RECD IN AP"
AUG 2 3 2010

9073

Navajo Refining Co.
P.O. Box 159
Artesia, NM 88211-0159
Attn: John Roberson

August 19, 2010

INVOICE

We are pleased to report completion of the facility sewer system upgrade and request payment per our proposal # 8667 and your PO # 95137 (copies attached):

Quotation:	$ 161,423.00
NMGRT:	$ 11,602.28
TOTAL THIS INVOICE:	**$ 173,025.28**

Thank you.

Thomas S. Giles
Giles Incorporated
NM #81259

Approved By,

Navajo Refining Co.

8/26/10

SCANNED
AUG 24 2010

GILES
INCORPORATED

P.o. Box 209
Artesia, NM 88211-0209
Office # (505) 748-2142
Fax # (505) 748-2142
NM License # 81259

8667

April 12, 2010

Navajo Refining Co.
P. O. Box 159
Artesia, NM 88211-0159
Attn: John Roberson

ESTIMATE

We propose to furnish labor, material, equipment, supervision and all things necessary, except as noted below, to install (1) Sanitary Sewer Lift Station at North Plant Main Control Room, approx. 650 lf of 2" SDR-11 piping, and tie into existing 4" PVC sewer line located on the North side of Moseley Avenue.

Install (1) Sanitary Sewer Lift Station at the South Plant Main Control Room, approx. 650 lf of 2" SDR-11 piping, and tie into existing 4" PVC sewer line located on East side of Freeman Street.

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Decommission (9) septic tanks by knocking a 3" diameter hole in bottom of tank floor and filling tanks with flow fill as instructed. Also remove existing toilets and urinals at locations listed below:

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Pipeline Office Building
Shift Foreman's Office
Blender Control Room
TCC Operator Shelter
S.P. Main Control Room
West Crude Comfort Station
N.P. Comfort Station (orange doors)

Replace approx. 2000 ft2 of asphalt paving on Texas St. and sewer line at Oil Movements (Blender) Building.

FOR THE SUM OF: **$ 161,423.00 NMGRT**

Notes: Any underground obstructions or unsuitable soil conditions encountered would be dealt with at the owner's direction and expense.
Does not include electrical wiring for lift station

Thank You

Thomas S. Giles
Giles Incorporated
NM #81259

Accepted by,

Navajo Refining Co.

Navajo Refining Company

Purchase Order 95137

Show this number on invoices, shipping documents, tags, boxes, etc.

Delivery Address	Invoice Address
NAVAJO REFINING COMPANY ATTENTION: MAIN WAREHOUSE 501 EAST MAIN STREET ARTESIA NM 88210	NAVAJO REFINING COMPANY ATTENTION: VENDOR PAYABLE GROUP PO BOX 1490 ARTESIA NM 88210

GILES INC
PO BOX 390
ARTESIA NM 88211-0390
US

Telephone 575-748-2142
Fax No. 575-748-2142

Revision Number 1
All previous revisions are no longer valid.
Order Date 06/21/2010
Purchase Order Due Date 09/01/2010
Note: **All tax calculations are estimates only for internal use.**

Payment Terms
Net on Reciept of Inv.

FACILITY SEWER SYSTEM UPGRADE FOR JOHN ROBERSON PER QUOTE #8667 DATED 04/12/10.

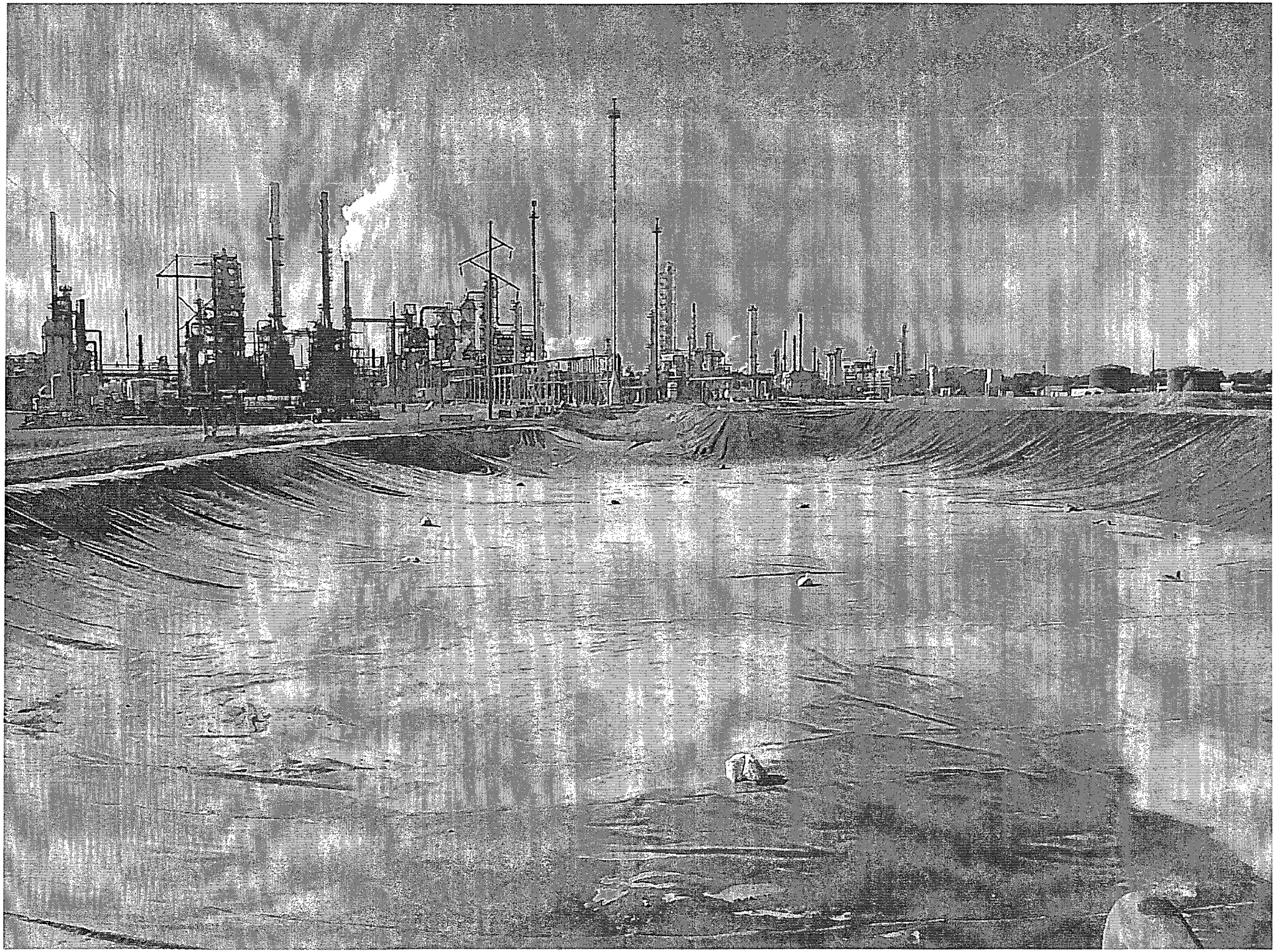
CONFIRMED TO TOMMY AND SID BY EMAIL ON 06/21/10.

THE SERVICES DESCRIBED IN THE PURCHASE ORDER AGREEMENT SHALL BE COMPLETED IN CONFORMITY WITH ALL REQUIREMENTS, OBLIGATIONS, TERMS AND CONDITIONS LISTED IN THE MASTER SERVICE AGREEMENT.

Line	Task	Date Hours Requested	UOM	Est. Total Tax Quantity Rate	Total
10	CIVIL Activity/PO Line Comments: INSTALL THREE SANITARY SEWER LINES AND TWO REQUIRED LIFT STATIONS. DECOMMISSION ALL SEPTIC SYSTEMS AND APPROPRIATE LAVATORIES.	09/01/2010			161,423.0000
				Services Total	161,423.0000

Jon Ross 21-Jun-2010
Approver

Total US Dollar 161,423.0000



ALS Laboratory Group

Date: 21-Jul-10

Client: Navajo Refining Company
Project: Bottom Hole
Work Order: 1007504

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1007504-01	WW Effluent #1	Soil		7/15 2010 13:42	7/16/2010 08:40	
1007504-02	WW Effluent #2	Soil		7/15/2010 13:46	7/16/2010 08:40	
1007504-03	WW Effluent #3	Soil		7/15/2010 13:53	7/16/2010 08:40	

ALS Laboratory Group

Date: 21-Jul-10

Client: Navajo Refining Company
Project: Bottom Hole
Sample ID: WW Effluent #1
Collection Date: 7/15/2010 01:42 PM

Work Order: 1007504
Lab ID: 1007504-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TEXAS TPH			**TX1005**		Prep Date: **7/16/2010**	Analyst: **SE**
nC6 to nC12	ND		50	mg/Kg	1	7/18/2010 02:50 AM
>nC12 to nC28	ND		50	mg/Kg	1	7/18/2010 02:50 AM
>nC28 to nC35	ND		50	mg/Kg	1	7/18/2010 02:50 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	7/18/2010 02:50 AM
Surr: 2-Fluorobiphenyl	*117*		*70-130*	*%REC*	1	7/18/2010 02:50 AM
Surr: Trifluoromethyl benzene	*107*		*70-130*	*%REC*	1	7/18/2010 02:50 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 21-Jul-10

Client: Navajo Refining Company
Project: Bottom Hole
Sample ID: WW Effluent #2
Collection Date: 7/15 2010 01:46 PM

Work Order: 1007504
Lab ID: 1007504-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TEXAS TPH			**TX1005**		Prep Date: **7/16/2010**	Analyst: **SE**
nC6 to nC12	ND		49	mg/Kg	1	7/18/2010 04:53 AM
>nC12 to nC28	ND		49	mg/Kg	1	7/18/2010 04:53 AM
>nC28 to nC35	ND		49	mg/Kg	1	7/18/2010 04:53 AM
Total Petroleum Hydrocarbon	ND		49	mg/Kg	1	7/18/2010 04:53 AM
Surr: 2-Fluorobiphenyl	*114*		*70-130*	*%REC*	1	7/18/2010 04:53 AM
Surr: Trifluoromethyl benzene	*115*		*70-130*	*%REC*	1	7/18/2010 04:53 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *21-Jul-10*

Client: Navajo Refining Company
Project: Bottom Hole
Sample ID: WW Effluent #3
Collection Date: 7/15/2010 01:53 PM

Work Order: 1007504
Lab ID: 1007504-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TEXAS TPH			**TX1005**		Prep Date: **7/16/2010**	Analyst: **SE**
nC6 to nC12	ND		50	mg/Kg	1	7/18/2010 05:24 AM
>nC12 to nC28	ND		50	mg/Kg	1	7/18/2010 05:24 AM
>nC28 to nC35	ND		50	mg/Kg	1	7/18/2010 05:24 AM
Total Petroleum Hydrocarbon	ND		50	mg/Kg	1	7/18/2010 05:24 AM
Surr: 2-Fluorobiphenyl	*124*		*70-130*	*%REC*	1	7/18/2010 05:24 AM
Surr: Trifluoromethyl benzene	*113*		*70-130*	*%REC*	1	7/18/2010 05:24 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page 1 of 1

☐ **ALS Laboratory Group**
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager:

ALS Work Order #: 1055501

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	Bottom Hole	A TPH
Work Order		Project Number		B
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C
Send Report To	Aaron Strange	Invoice Attn	Aaron Strange	D
Address	P.O. Box 159	Address	P.O. Box 159	E F
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	G
Phone	575 748-3311	Phone	(505) 748-3311	H
Fax	575 748-5451	Fax	(505) 746-5421	I
e-Mail Address		e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WW Effluent #1	7-15-10	1342	S	NO	1	X										
2	WW Effluent #2	↓	1346	S	↓	1	X										
3	WW Effluent #3	↓	1353	S	↓	1	X										
4	Temp Blank																
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: FedEx

Required Turnaround Time: (Check Box) ✓ Std. 10 Work Days ☐ 5 Work Days ☐ 24 Hr ☐ Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
Aaron Strange	7-15-10	1615		
Relinquished by:	Date:	Time:	Received by (Laboratory):	7/16/10 0840
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Environmental

Date: 18-Oct-10

Client: Navajo Refining Company
Project: WW Effluent
Work Order: **1010346**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1010346-01	Leak from 9-27-10 #1	Soil		10/7/2010 12:30	10/8/2010 09:00	☐
1010346-02	Leak from 9-27-10 #2	Soil		10/7/2010 12:34	10/8/2010 09:00	☐
1010346-03	Leak from 9-27-10 #3	Soil		10/7/2010 12:49	10/8/2010 09:00	☐
1010346-04	Leak from 9-27-10 #4	Soil		10/7/2010 13:02	10/8/2010 09:00	☐
1010346-05	Background N32 46' 05.6"-W104 13' 42.0"	Soil		10/7/2010 13:10	10/8/2010 09:00	☐
1010346-06	Leak from 5-3-10	Soil		10/7/2010 13:34	10/8/2010 09:00	☐
1010346-07	Background N32 45' 54.3"-W104 14' 13.0"	Soil		10/7/2010 13:40	10/8/2010 09:00	☐
1010346-08	Trip Blank	Water		10/7/2010	10/8/2010 09:00	☑

ALS Environmental

Date: 18-Oct-10

Client: Navajo Refining Company
Project: WW Effluent
Sample ID: Leak from 9-27-10 #1
Collection Date: 10/7/2010 12:30 PM

Work Order: 1010346
Lab ID: 1010346-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: IGF
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 04:20 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 04:20 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 04:20 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 04:20 PM
Surr: 4-Bromofluorobenzene	*92.4*		*75-131*	*%REC*	1	10/12/2010 04:20 PM
Surr: Trifluorotoluene	*90.3*		*73-130*	*%REC*	1	10/12/2010 04:20 PM
MERCURY			SW7471A		Prep Date: 10/14/2010	Analyst: JCJ
Mercury	5.26		3.45	µg/Kg	1	10/14/2010 03:40 PM
METALS			SW6020		Prep Date: 10/13/2010	Analyst: SKS
Aluminum	10,200		87.7	mg/Kg	100	10/14/2010 09:33 PM
Antimony	ND		0.439	mg/Kg	1	10/14/2010 06:42 AM
Arsenic	3.55		0.439	mg/Kg	1	10/14/2010 06:42 AM
Barium	134		43.9	mg/Kg	100	10/14/2010 09:33 PM
Beryllium	0.575		0.439	mg/Kg	1	10/14/2010 06:42 AM
Cadmium	ND		0.439	mg/Kg	1	10/14/2010 06:42 AM
Calcium	40,400		4,390	mg/Kg	100	10/14/2010 09:33 PM
Chromium	8.69		0.439	mg/Kg	1	10/14/2010 06:42 AM
Cobalt	3.61		0.439	mg/Kg	1	10/14/2010 06:42 AM
Copper	6.21		0.439	mg/Kg	1	10/14/2010 06:42 AM
Iron	6,830		43.9	mg/Kg	1	10/14/2010 06:42 AM
Lead	4.74		0.439	mg/Kg	1	10/14/2010 06:42 AM
Magnesium	9,320		43.9	mg/Kg	1	10/14/2010 06:42 AM
Manganese	255		43.9	mg/Kg	100	10/14/2010 09:33 PM
Nickel	7.85		0.439	mg/Kg	1	10/14/2010 06:42 AM
Potassium	2,670		43.9	mg/Kg	1	10/14/2010 06:42 AM
Selenium	0.701		0.439	mg/Kg	1	10/14/2010 06:42 AM
Silver	ND		0.439	mg/Kg	1	10/14/2010 06:42 AM
Sodium	689		43.9	mg/Kg	1	10/14/2010 06:42 AM
Strontium	221		43.9	mg/Kg	100	10/14/2010 09:33 PM
Thallium	ND		0.439	mg/Kg	1	10/14/2010 06:42 AM
Vanadium	16.3		0.439	mg/Kg	1	10/14/2010 06:42 AM
Zinc	21.0		0.439	mg/Kg	1	10/14/2010 06:42 AM
ANIONS			E300		Prep Date: 10/13/2010	Analyst: DM
Chloride	146		4.98	mg/Kg	1	10/14/2010 12:34 PM
Sulfate	7,620		49.8	mg/Kg	10	10/14/2010 04:11 PM
Surr: Selenate (surr)	*108*		*85-115*	*%REC*	10	10/14/2010 04:11 PM
Surr: Selenate (surr)	*109*		*85-115*	*%REC*	1	10/14/2010 12:34 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *18-Oct-10*

Client: Navajo Refining Company
Project: WW Effluent
Sample ID: Leak from 9-27-10 #2
Collection Date: 10/7/2010 12:34 PM

Work Order: 1010346
Lab ID: 1010346-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: IGF
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 01:01 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 01:01 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 01:01 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 01:01 PM
Surr: 4-Bromofluorobenzene	*93.4*		*75-131*	*%REC*	1	10/12/2010 01:01 PM
Surr: Trifluorotoluene	*92.8*		*73-130*	*%REC*	1	10/12/2010 01:01 PM
MERCURY			SW7471A		Prep Date: **10/14/2010**	Analyst: JCJ
Mercury	8.09		3.57	µg/Kg	1	10/14/2010 03:42 PM
METALS			SW6020		Prep Date: **10/13/2010**	Analyst: SKS
Aluminum	2,220		90.1	mg/Kg	100	10/14/2010 09:39 PM
Antimony	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Arsenic	1.84		0.450	mg/Kg	1	10/14/2010 06:48 AM
Barium	174		45.0	mg/Kg	100	10/14/2010 09:39 PM
Beryllium	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Cadmium	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Calcium	54,000		4,500	mg/Kg	100	10/14/2010 09:39 PM
Chromium	2.52		0.450	mg/Kg	1	10/14/2010 06:48 AM
Cobalt	1.21		0.450	mg/Kg	1	10/14/2010 06:48 AM
Copper	1.86		0.450	mg/Kg	1	10/14/2010 06:48 AM
Iron	2,710		45.0	mg/Kg	1	10/14/2010 06:48 AM
Lead	2.08		0.450	mg/Kg	1	10/14/2010 06:48 AM
Magnesium	1,970		45.0	mg/Kg	1	10/14/2010 06:48 AM
Manganese	188		45.0	mg/Kg	100	10/14/2010 09:39 PM
Nickel	2.39		0.450	mg/Kg	1	10/14/2010 06:48 AM
Potassium	415		45.0	mg/Kg	1	10/14/2010 06:48 AM
Selenium	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Silver	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Sodium	195		45.0	mg/Kg	1	10/14/2010 06:48 AM
Strontium	119		0.450	mg/Kg	1	10/14/2010 06:48 AM
Thallium	ND		0.450	mg/Kg	1	10/14/2010 06:48 AM
Vanadium	6.30		0.450	mg/Kg	1	10/14/2010 06:48 AM
Zinc	6.76		0.450	mg/Kg	1	10/14/2010 06:48 AM
ANIONS			E300		Prep Date: **10/13/2010**	Analyst: DM
Chloride	58.0		4.92	mg/Kg	1	10/14/2010 12:55 PM
Sulfate	6,630		49.2	mg/Kg	10	10/14/2010 04:32 PM
Surr: Selenate (surr)	*110*		*85-115*	*%REC*	10	10/14/2010 04:32 PM
Surr: Selenate (surr)	*109*		*85-115*	*%REC*	1	10/14/2010 12:55 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 18-Oct-10

Client: Navajo Refining Company
Project: WW Effluent
Sample ID: Leak from 9-27-10 #3
Collection Date: 10/7/2010 12:49 PM

Work Order: 1010346
Lab ID: 1010346-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: IGF
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 02:03 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 02:03 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 02:03 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 02:03 PM
Surr: 4-Bromofluorobenzene	*94.8*		*75-131*	*%REC*	1	10/12/2010 02:03 PM
Surr: Trifluorotoluene	*92.2*		*73-130*	*%REC*	1	10/12/2010 02:03 PM
MERCURY			SW7471A		Prep Date: **10/14/2010**	Analyst: JCJ
Mercury	6.73		3.61	µg/Kg	1	10/14/2010 03:44 PM
METALS			SW6020		Prep Date: **10/13/2010**	Analyst: SKS
Aluminum	6,810		92.6	mg/Kg	100	10/14/2010 09:45 PM
Antimony	ND		0.463	mg/Kg	1	10/14/2010 06:54 AM
Arsenic	3.00		0.463	mg/Kg	1	10/14/2010 06:54 AM
Barium	73.3		0.463	mg/Kg	1	10/14/2010 06:54 AM
Beryllium	ND		0.463	mg/Kg	1	10/14/2010 06:54 AM
Cadmium	ND		0.463	mg/Kg	1	10/14/2010 06:54 AM
Calcium	79,800		4,630	mg/Kg	100	10/14/2010 09:45 PM
Chromium	5.65		0.463	mg/Kg	1	10/14/2010 06:54 AM
Cobalt	2.43		0.463	mg/Kg	1	10/14/2010 06:54 AM
Copper	4.62		0.463	mg/Kg	1	10/14/2010 06:54 AM
Iron	4,510		46.3	mg/Kg	1	10/14/2010 06:54 AM
Lead	3.76		0.463	mg/Kg	1	10/14/2010 06:54 AM
Magnesium	7,040		46.3	mg/Kg	1	10/14/2010 06:54 AM
Manganese	178		46.3	mg/Kg	100	10/14/2010 09:45 PM
Nickel	5.19		0.463	mg/Kg	1	10/14/2010 06:54 AM
Potassium	1,670		46.3	mg/Kg	1	10/14/2010 06:54 AM
Selenium	0.523		0.463	mg/Kg	1	10/14/2010 06:54 AM
Silver	ND		0.463	mg/Kg	1	10/14/2010 06:54 AM
Sodium	408		46.3	mg/Kg	1	10/14/2010 06:54 AM
Strontium	530		46.3	mg/Kg	100	10/14/2010 09:45 PM
Thallium	ND		0.463	mg/Kg	1	10/14/2010 06:54 AM
Vanadium	11.0		0.463	mg/Kg	1	10/14/2010 06:54 AM
Zinc	14.3		0.463	mg/Kg	1	10/14/2010 06:54 AM
ANIONS			E300		Prep Date: **10/13/2010**	Analyst: DM
Chloride	50.9		4.93	mg/Kg	1	10/14/2010 01:17 PM
Sulfate	12,100		493	mg/Kg	100	10/14/2010 04:54 PM
Surr: Selenate (surr)	*110*		*85-115*	*%REC*	100	10/14/2010 04:54 PM
Surr: Selenate (surr)	*107*		*85-115*	*%REC*	1	10/14/2010 01:17 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation

ALS Environmental

Date: 18-Oct-10

Client: Navajo Refining Company
Project: WW Effluent
Sample ID: Leak from 9-27-10 #4
Collection Date: 10/7/2010 01:02 PM

Work Order: 1010346
Lab ID: 1010346-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: IGF
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 02:24 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 02:24 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 02:24 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 02:24 PM
Surr: 4-Bromofluorobenzene	*96.4*		*75-131*	*%REC*	1	10/12/2010 02:24 PM
Surr: Trifluorotoluene	*91.7*		*73-130*	*%REC*	1	10/12/2010 02:24 PM
MERCURY			SW7471A		Prep Date: 10/14/2010	Analyst: JCJ
Mercury	13.7		3.51	µg/Kg	1	10/14/2010 03:46 PM
METALS			SW6020		Prep Date: 10/13/2010	Analyst: SKS
Aluminum	8,550		90.1	mg/Kg	100	10/14/2010 09:51 PM
Antimony	ND		0.450	mg/Kg	1	10/14/2010 07:00 AM
Arsenic	4.45		0.450	mg/Kg	1	10/14/2010 07:00 AM
Barium	86.8		0.450	mg/Kg	1	10/14/2010 07:00 AM
Beryllium	ND		0.450	mg/Kg	1	10/14/2010 07:00 AM
Cadmium	ND		0.450	mg/Kg	1	10/14/2010 07:00 AM
Calcium	53,900		4,500	mg/Kg	100	10/14/2010 09:51 PM
Chromium	7.28		0.450	mg/Kg	1	10/14/2010 07:00 AM
Cobalt	3.29		0.450	mg/Kg	1	10/14/2010 07:00 AM
Copper	7.54		0.450	mg/Kg	1	10/14/2010 07:00 AM
Iron	6,010		45.0	mg/Kg	1	10/14/2010 07:00 AM
Lead	4.56		2.25	mg/Kg	5	10/14/2010 07:42 PM
Magnesium	5,720		45.0	mg/Kg	1	10/14/2010 07:00 AM
Manganese	127		0.450	mg/Kg	1	10/14/2010 07:00 AM
Nickel	7.05		0.450	mg/Kg	1	10/14/2010 07:00 AM
Potassium	2,200		45.0	mg/Kg	1	10/14/2010 07:00 AM
Selenium	0.683		0.450	mg/Kg	1	10/14/2010 07:00 AM
Silver	ND		0.450	mg/Kg	1	10/14/2010 07:00 AM
Sodium	332		45.0	mg/Kg	1	10/14/2010 07:00 AM
Strontium	135		0.450	mg/Kg	1	10/14/2010 07:00 AM
Thallium	ND		2.25	mg/Kg	5	10/14/2010 07:42 PM
Vanadium	12.7		0.450	mg/Kg	1	10/14/2010 07:00 AM
Zinc	17.7		0.450	mg/Kg	1	10/14/2010 07:00 AM
ANIONS			E300		Prep Date: 10/13/2010	Analyst: DM
Chloride	89.6		4.97	mg/Kg	1	10/14/2010 01:39 PM
Sulfate	11,900		497	mg/Kg	100	10/14/2010 05:16 PM
Surr: Selenate (surr)	*110*		*85-115*	*%REC*	100	10/14/2010 05:16 PM
Surr: Selenate (surr)	*108*		*85-115*	*%REC*	1	10/14/2010 01:39 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *18-Oct-10*

Client: Navajo Refining Company
Project: WW Effluent
Sample ID: Background N32 46' 05.6"-W104 13' 42.0"
Collection Date: 10/7/2010 01:10 PM

Work Order: 1010346
Lab ID: 1010346-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: **IGF**
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 02:45 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 02:45 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 02:45 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 02:45 PM
Surr: 4-Bromofluorobenzene	*91.7*		*75-131*	*%REC*	1	10/12/2010 02:45 PM
Surr: Trifluorotoluene	*89.5*		*73-130*	*%REC*	1	10/12/2010 02:45 PM
MERCURY			SW7471A		Prep Date: **10/14/2010**	Analyst: **JCJ**
Mercury	**11.4**		**3.46**	**µg/Kg**	1	10/14/2010 03:32 PM
METALS			SW6020		Prep Date: **10/13/2010**	Analyst: **SKS**
Aluminum	**7,740**		**90.1**	**mg/Kg**	100	10/14/2010 09:58 PM
Antimony	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Arsenic	**1.92**		**0.450**	**mg/Kg**	1	10/14/2010 07:06 AM
Barium	**63.5**		**0.450**	**mg/Kg**	1	10/14/2010 07:06 AM
Beryllium	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Cadmium	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Calcium	**21,000**		**4,500**	**mg/Kg**	100	10/14/2010 09:58 PM
Chromium	**6.53**		**0.450**	**mg/Kg**	1	10/14/2010 07:06 AM
Cobalt	**2.49**		**0.450**	**mg/Kg**	1	10/14/2010 07:06 AM
Copper	**5.23**		**0.450**	**mg/Kg**	1	10/14/2010 07:06 AM
Iron	**5,960**		**45.0**	**mg/Kg**	1	10/14/2010 07:06 AM
Lead	**5.83**		**0.450**	**mg/Kg**	1	10/14/2010 07:06 AM
Magnesium	**2,790**		**45.0**	**mg/Kg**	1	10/14/2010 07:06 AM
Manganese	**140**		**0.450**	**mg/Kg**	1	10/14/2010 07:06 AM
Nickel	**5.89**		**0.450**	**mg/Kg**	1	10/14/2010 07:06 AM
Potassium	**1,840**		**45.0**	**mg/Kg**	1	10/14/2010 07:06 AM
Selenium	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Silver	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Sodium	ND		45.0	mg/Kg	1	10/14/2010 07:06 AM
Strontium	**23.7**		**0.450**	**mg/Kg**	1	10/14/2010 07:06 AM
Thallium	ND		0.450	mg/Kg	1	10/14/2010 07:06 AM
Vanadium	**8.36**		**0.450**	**mg/Kg**	1	10/14/2010 07:06 AM
Zinc	**18.9**		**0.450**	**mg/Kg**	1	10/14/2010 07:06 AM
ANIONS			E300		Prep Date: **10/13/2010**	Analyst: **DM**
Chloride	**5.54**		**4.91**	**mg/Kg**	1	10/14/2010 02:44 PM
Sulfate	**28.9**		**4.91**	**mg/Kg**	1	10/14/2010 02:44 PM
Surr: Selenate (surr)	*110*		*85-115*	*%REC*	1	10/14/2010 02:44 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation

ALS Environmental

Date: *18-Oct-10*

Client: Navajo Refining Company
Project: WW Effluent
Sample ID: Leak from 5-3-10
Collection Date: 10/7/2010 01:34 PM

Work Order: 1010346
Lab ID: 1010346-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: IGF
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 03:05 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 03:05 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 03:05 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 03:05 PM
Surr: 4-Bromofluorobenzene	*94.9*		*75-131*	*%REC*	1	10/12/2010 03:05 PM
Surr: Trifluorotoluene	*92.1*		*73-130*	*%REC*	1	10/12/2010 03:05 PM
MERCURY			SW7471A		Prep Date: 10/14/2010	Analyst: JCJ
Mercury	9.44		3.46	µg/Kg	1	10/14/2010 03:52 PM
METALS			SW6020		Prep Date: 10/13/2010	Analyst: SKS
Aluminum	10,600		99.0	mg/Kg	100	10/14/2010 10:04 PM
Antimony	ND		0.495	mg/Kg	1	10/14/2010 07:12 AM
Arsenic	3.41		0.495	mg/Kg	1	10/14/2010 07:12 AM
Barium	210		2.48	mg/Kg	5	10/14/2010 07:48 PM
Beryllium	0.521		0.495	mg/Kg	1	10/14/2010 07:12 AM
Cadmium	ND		0.495	mg/Kg	1	10/14/2010 07:12 AM
Calcium	76,700		4,950	mg/Kg	100	10/14/2010 10:04 PM
Chromium	7.65		0.495	mg/Kg	1	10/14/2010 07:12 AM
Cobalt	3.57		0.495	mg/Kg	1	10/14/2010 07:12 AM
Copper	7.92		0.495	mg/Kg	1	10/14/2010 07:12 AM
Iron	6,720		49.5	mg/Kg	1	10/14/2010 07:12 AM
Lead	6.74		2.48	mg/Kg	5	10/14/2010 07:48 PM
Magnesium	4,130		49.5	mg/Kg	1	10/14/2010 07:12 AM
Manganese	178		0.495	mg/Kg	1	10/14/2010 07:12 AM
Nickel	7.72		0.495	mg/Kg	1	10/14/2010 07:12 AM
Potassium	2,730		49.5	mg/Kg	1	10/14/2010 07:12 AM
Selenium	1.73		0.495	mg/Kg	1	10/14/2010 07:12 AM
Silver	ND		0.495	mg/Kg	1	10/14/2010 07:12 AM
Sodium	93.6		49.5	mg/Kg	1	10/14/2010 07:12 AM
Strontium	79.6		0.495	mg/Kg	1	10/14/2010 07:12 AM
Thallium	ND		2.48	mg/Kg	5	10/14/2010 07:48 PM
Vanadium	12.5		0.495	mg/Kg	1	10/14/2010 07:12 AM
Zinc	35.1		0.495	mg/Kg	1	10/14/2010 07:12 AM
ANIONS			E300		Prep Date: 10/13/2010	Analyst: DM
Chloride	6.93		4.99	mg/Kg	1	10/14/2010 03:06 PM
Sulfate	30.6		4.99	mg/Kg	1	10/14/2010 03:06 PM
Surr: Selenate (surr)	*109*		*85-115*	*%REC*	1	10/14/2010 03:06 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *18-Oct-10*

Client: Navajo Refining Company
Project: WW Effluent
Sample ID: Background N32 45' 54.3"-W104 14' 13.0"
Collection Date: 10/7/2010 01:40 PM

Work Order: 1010346
Lab ID: 1010346-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			SW8021B			Analyst: IGF
Benzene	ND		0.0010	mg/Kg	1	10/12/2010 04:00 PM
Toluene	ND		0.0010	mg/Kg	1	10/12/2010 04:00 PM
Ethylbenzene	ND		0.0010	mg/Kg	1	10/12/2010 04:00 PM
Xylenes, Total	ND		0.0030	mg/Kg	1	10/12/2010 04:00 PM
Surr: 4-Bromofluorobenzene	*96.3*		*75-131*	*%REC*	1	10/12/2010 04:00 PM
Surr: Trifluorotoluene	*93.4*		*73-130*	*%REC*	1	10/12/2010 04:00 PM
MERCURY			SW7471A		Prep Date: 10/14/2010	Analyst: JCJ
Mercury	11.7		3.55	µg/Kg	1	10/14/2010 03:54 PM
METALS			SW6020		Prep Date: 10/13/2010	Analyst: SKS
Aluminum	7,760		94.3	mg/Kg	100	10/14/2010 10:22 PM
Antimony	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Arsenic	2.40		0.472	mg/Kg	1	10/14/2010 07:18 AM
Barium	70.3		0.472	mg/Kg	1	10/14/2010 07:18 AM
Beryllium	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Cadmium	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Calcium	39,100		4,720	mg/Kg	100	10/14/2010 10:22 PM
Chromium	6.82		0.472	mg/Kg	1	10/14/2010 07:18 AM
Cobalt	2.61		0.472	mg/Kg	1	10/14/2010 07:18 AM
Copper	6.24		0.472	mg/Kg	1	10/14/2010 07:18 AM
Iron	5,520		47.2	mg/Kg	1	10/14/2010 07:18 AM
Lead	6.07		0.472	mg/Kg	1	10/14/2010 07:18 AM
Magnesium	7,550		47.2	mg/Kg	1	10/14/2010 07:18 AM
Manganese	149		0.472	mg/Kg	1	10/14/2010 07:18 AM
Nickel	5.84		0.472	mg/Kg	1	10/14/2010 07:18 AM
Potassium	1,340		47.2	mg/Kg	1	10/14/2010 07:18 AM
Selenium	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Silver	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Sodium	ND		47.2	mg/Kg	1	10/14/2010 07:18 AM
Strontium	107		0.472	mg/Kg	1	10/14/2010 07:18 AM
Thallium	ND		0.472	mg/Kg	1	10/14/2010 07:18 AM
Vanadium	10.7		0.472	mg/Kg	1	10/14/2010 07:18 AM
Zinc	18.4		0.472	mg/Kg	1	10/14/2010 07:18 AM
ANIONS			E300		Prep Date: 10/13/2010	Analyst: DM
Chloride	ND		4.96	mg/Kg	1	10/14/2010 03:27 PM
Sulfate	7,510		49.6	mg/Kg	10	10/14/2010 05:37 PM
Surr: Selenate (surr)	*108*		*85-115*	*%REC*	10	10/14/2010 05:37 PM
Surr: Selenate (surr)	*109*		*85-115*	*%REC*	1	10/14/2010 03:27 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation

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Chain of Custody Form

Page 1 of 1

☐ ALS Laboratory Group
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Holland, MI 49424-9263
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Fax: +1 616 399 6165

ALS Project Manager: | ALS Work Order #: 1010339(0

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	WW Effluent	A BTEX
Work Order		Project Number		B Metals (totals)
Company Name	Navajo Refining Company	Bill To Company	Navajo Refining Company	C Anions (chlorides+sulphate)
Send Report To	Aaron Strange	Invoice Attn	Aaron Strange	D
Address	P.O. Box 159	Address	P.O. Box 159	E
				F
City/State/Zip	Artesia, NM 88211	City/State/Zip	Artesia, NM 88211	G
Phone	~~(505)~~ 575 748-3311	Phone	~~(505)~~ 748-3311	H
Fax	~~(505) 746-6421~~ 5451	Fax	~~(505) 746-6421~~	I
e-Mail Address	~~dgbooyer@SESI-NM.com~~	e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Leak from 9-27-10 #1	10-7-10	12:30	S	NO	2	X	X	X								
2	Leak from 9-27-10 #2		12:34				X	X	X								
3	Leak from 9-27-10 #3		12:49				X	X	X								
4	Leak from 9-27-10 #4 N 32°46'05.6"		13:02				X	X	X								
5	Background W 104°13'42.0"		13:10				X	X	X								
6	Leak from 5-3-10 N 32°45'54.3"		13:34				X	X	X								
7	Background W 104°14'13.0"		13:40				X	X	X								
8	Temp Blank																
9	Trip Blank																
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
[signature]	10-7-10	16:15	
Relinquished by:	Date:	Time:	Received by (Laboratory): [signature] 10/8/10 09:00
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other / EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Laboratory Group

Date: 29-Mar-10

Client: Navajo Refining Company
Project: Disposal
Work Order: 1003356
Sample ID: Waste Water Effluent Soil
Lab ID: 1003356-02
Collection Date: 3/12/2010 11:42 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY			SW7470		Prep Date: 3/19/2010	Analyst: JCJ
Mercury	ND		0.000200	mg/L	1	3/19/2010 04:13 PM
TCLP METALS			SW1311/6020		Prep Date: 3/19/2010	Analyst: SKS
Arsenic	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
Barium	**0.131**		**0.0500**	**mg/L**	10	3/19/2010 07:06 PM
Cadmium	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
Chromium	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
Lead	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
Selenium	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
Silver	ND		0.0500	mg/L	10	3/19/2010 07:06 PM
TCLP SEMIVOLATILES			SW1311/8270		Prep Date: 3/19/2010	Analyst: ACN
2,4,5-Trichlorophenol	ND		5.0	µg/L	1	3/22/2010 05:10 PM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	3/22/2010 05:10 PM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Cresols, Total	ND		15	µg/L	1	3/22/2010 05:10 PM
Hexachlorobenzene	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Hexachloroethane	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Nitrobenzene	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Pentachlorophenol	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Pyridine	ND		5.0	µg/L	1	3/22/2010 05:10 PM
Surr: 2,4,6-Tribromophenol	*93.8*		*42-124*	*%REC*	1	3/22/2010 05:10 PM
Surr: 2-Fluorobiphenyl	*70.7*		*48-120*	*%REC*	1	3/22/2010 05:10 PM
Surr: 2-Fluorophenol	*63.6*		*20-120*	*%REC*	1	3/22/2010 05:10 PM
Surr: 4-Terphenyl-d14	*76.4*		*51-135*	*%REC*	1	3/22/2010 05:10 PM
Surr: Nitrobenzene-d5	*69.3*		*41-120*	*%REC*	1	3/22/2010 05:10 PM
Surr: Phenol-d6	*65.2*		*20-120*	*%REC*	1	3/22/2010 05:10 PM
TCLP VOLATILES			SW1311/8260B		Prep Date: 3/19/2010	Analyst: PC
1,1-Dichloroethene	ND		100	µg/L	20	3/22/2010 03:51 PM
1,2-Dichloroethane	ND		100	µg/L	20	3/22/2010 03:51 PM
1,4-Dichlorobenzene	ND		100	µg/L	20	3/22/2010 03:51 PM
2-Butanone	ND		200	µg/L	20	3/22/2010 03:51 PM
Benzene	ND		100	µg/L	20	3/22/2010 03:51 PM
Carbon tetrachloride	ND		100	µg/L	20	3/22/2010 03:51 PM
Chlorobenzene	ND		100	µg/L	20	3/22/2010 03:51 PM
Chloroform	ND		100	µg/L	20	3/22/2010 03:51 PM
Tetrachloroethene	ND		100	µg/L	20	3/22/2010 03:51 PM
Trichloroethene	ND		100	µg/L	20	3/22/2010 03:51 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 29-Mar-10

Client: Navajo Refining Company
Project: Disposal
Sample ID: Waste Water Effluent Soil
Collection Date: 3/12/2010 11:42 AM

Work Order: 1003356
Lab ID: 1003356-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Vinyl chloride	ND		100	µg/L	20	3/22/2010 03:51 PM
Surr: 1,2-Dichloroethane-d4	*89.5*		*70-125*	*%REC*	20	3/22/2010 03:51 PM
Surr: 4-Bromofluorobenzene	*101*		*72-125*	*%REC*	20	3/22/2010 03:51 PM
Surr: Dibromofluoromethane	*92.4*		*71-125*	*%REC*	20	3/22/2010 03:51 PM
Surr: Toluene-d8	*98.0*		*75-125*	*%REC*	20	3/22/2010 03:51 PM
REACTIVE CYANIDE			**SW-846**			Analyst: **HN**
Reactive Cyanide	ND		40.0	mg/Kg	1	3/17/2010
REACTIVE SULFIDE			**SW-846**			Analyst: **HN**
Reactive Sulfide	ND		40.0	mg/Kg	1	3/17/2010
IGNITABILITY			**SW1030**			Analyst: **JBA**
Ignitability, Solid	**Negative**			no unit	1	3/23/2010 03:00 PM
PH			**SW9045B**			Analyst: **TDW**
pH	**7.96**		**0.100**	pH Units	1	3/23/2010 04:00 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel: +1 281 530 5656
Fax: +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

Page 1 of 1

ALS Project Manager: | ALS Work Order #: 1003520

Customer Information

Purchase Order	
Work Order	
Company Name	Navajo Refining Company
Send Report To	Aaron Strange
Address	501 E. Main
City/State/Zip	Artesia, NM 88210
Phone	575 (~~505~~) 746-3311
Fax	575 (~~505~~) 746-5421
e-Mail Address	

Project Information

Project Name	~~Waste Water Outfall~~ Disposal
Project Number	
Bill To Company	Navajo Refining Company
Invoice Attn	Aaron Strange
Address	501 E. Main
City/State/Zip	Artesia, NM 88210
Phone	575 (~~505~~) 748-3311
Fax	575 (~~505~~) 746-5421
e-Mail Address	

Parameter/Method Request for Analysis

A	~~TPH 8015~~ TCLP Voas
B	~~SOC~~ TCLP SemiVoas
C	~~VOC (8260)~~ TCLP metals
D	~~Chlorides (CL)~~ RCI
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	T-124 Excavated Soil	3-11-10	1420	S	Y	1	X	X	X	X							
2	Temp.																
3	Waste Water Effluent Soil	3-12-10	11:42	S	Y	1	X	X	X	X							
4	W-55 Blast Media	3-12-10	1313	S	Y	1	X	X	X	X							
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Aaron Strange

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☑ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 3 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by: Aaron Strange | Date: 3-12-10 | Time: 1615 | Received by: | Date: | Time:

Relinquished by: | Date: | Time: | Received by (Laboratory): 3/13/10 0840

Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory):

Notes: 10 Day TAT.

Cooler ID	Cooler Temp.

QC Packages: (Check One Box Below)
☑ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Notes:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Gaines Injection Wells.	Date and Hour of Occurrence: 02/20/2010 ~ 12:10	Date and Hour of Discovery: 02/20/2010 ~ 12:30
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Left a voicemail with Carl Chavez with OCD in Santa Fe (505-476-3490), left a voicemail with Hope Monzeglio from the NMED Haz Waste Bureau (505-476-6045), and left a voicemail with the OCD Artesia Office (575-748-1283 extension 104). OCD (Artesia) called back.	
By Whom? Darrell Moore	Date and Hour: 02/20/2010 at ~13:50 to Carl Chavez (OCD Santa Fe). 02/20/2010 at ~14:15 to Hope Monzeglio (NMED Haz Waste Bureau), and 02/31/2010 at ~14:17 to the OCD Artesia office.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.*
On 02/20/2010 at ~ 12:30 the waste water effluent line began to leak between the Chukka and Gaines Injection Wells. The effluent line was blocked in at the Waste Water Treater (inside the refinery) at ~ 13:04 on 02/20/2010 to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken *
The area affected was the effluent line between the Chukka and Gaines Injection wells. The leak was excavated to make repairs and the soil was placed into six roll off bins. The leak did not stain the soil; however Navajo will dispose of the excavated soil per analytical results.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Aaron Strange	OIL CONSERVATION DIVISION
Printed Name: Aaron Strange	Approved by District Supervisor:
Title: Sr. Environmental Technician	Approval Date: Expiration Date:
E-mail Address: aaron.strange@holly-corp.com	Conditions of Approval: Attached ☐
Date: 03/05/2010 Phone: 575-703-5057	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude ~N32°45'54.4" **Longitude** ~W104°14'17.4"

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Gaines Injection Wells.	Date and Hour of Occurrence: 04/15/2010 Unknown	Date and Hour of Discovery: 04/15/2010 ~ 09:40
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez from OCD in Santa Fe (505-476-3490), left a voicemail with OCD District Supervisor (575-748-1283 extension 104). Spoke with Art Vollmer from the NMED Haz Waste Bureau (505-476-6045.	
By Whom? Aaron Strange	Date and Hour 04/15/2010 at ~10:02 to Carl Chavez (OCD Santa Fe), 04/15/2010 at ~10:07 to the OCD Artesia office, and 04/15/2010 at ~10:10 to NMED Haz Waste Bureau.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.*
On 04/15/2010 at ~ 09:40 a leak was found between the Chukka and Gaines Injection Wells. The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Gaines Injection Wells at ~ N32°45'54.4", W104°14'17.4". The leak was excavated and the line was clamped and is holding. The leak did not stain the soil. Bottom Hole samples were collected and tested for TPH. This leak was just a few feet from the leak that occurred on 2/20/2010.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Aaron Strange	OIL CONSERVATION DIVISION
Printed Name: Aaron Strange	Approved by District Supervisor:
Title: Sr. Environmental Technician	Approval Date: / Expiration Date:
E-mail Address: aaron.strange@bullycom.com	Conditions of Approval: / Attached ☐
Date: 10/08/2010 Phone: 575-703-5057	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude ~N32°46'03.8" Longitude ~W104°13'44.4"

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio. Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Mewborne Injection Wells.	Date and Hour of Occurrence: 05/03/2010 Unknown	Date and Hour of Discovery: 05/03/2010 ~ 15:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Notified Carl Chavez from OCD in Santa Fe (505-476-3490), OCD Artesia office (575-748-1283), and Hope Monzeglio with the NMED Haz Waste Bureau (505-476-6045).	
By Whom? Darrell Moore	Date and Hour: 05/032010 at ~18:06 to Carl Chavez (OCD Santa Fe), 05/03/2010 at ~18:10 to the OCD Artesia office, and 05/03/2010 at ~18:08 to NMED Haz Waste Bureau.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.*
On 04/15/2010 at ~ 09:40 a leak was found between the Chukka and Mewborne Injection Wells. The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Mewborne Injection Wells at ~ N32°46'03.8", W104°13'44.4" The leak was excavated and the line was clamped and is holding. The leak did not stain the soil. Bottom Hole samples have be collected and are being tested for BTEX, Metals, and Anions.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Aaron Strange	OIL CONSERVATION DIVISION
Printed Name: Aaron Strange	Approved by District Supervisor:
Title: Sr. Environmental Technician	Approval Date: / Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval: / Attached ☐
Date: 10/08/2010 Phone: 575-703-5057	

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Revised October 10, 2003

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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Navajo Refining Co. LLC	Contact: Aaron Strange
Address: 501 E. Main Street Artesia, N.M. 88210	Telephone No. 575-748-3311
Facility Name: Artesia Plant	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude ~N32°45'54.5" **Longitude** ~W104°14'17.4"

NATURE OF RELEASE

Type of Release: Spill of Treated Waster Water (by Aggressive Bio Treatment)	Volume of Release: Unknown	Volume Recovered: ~0 barrels
Source of Release: Effluent line leak between the Chukka and Gaines Injection Wells.	Date and Hour of Occurrence: 09/27/2010 ~ 07:20 (Unknown)	Date and Hour of Discovery: 09/27/2010 ~ 08:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Spoke with Carl Chavez from OCD in Santa Fe (505-476-3490), left a voicemail with OCD Artesia Office (575-748-1283 extension 102), and left a voicemail with Hope Monzeglio from the NMED Haz Waste Bureau (505-476-6045).	
By Whom? Aaron Strange	Date and Hour: 09/28/2010 at ~07:31 to Carl Chavez (OCD Santa Fe), 09/28/2010 at ~08:12 to the OCD Artesia office, and 09/28/2010 at ~08:16 to NMED Haz Waste Bureau.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.*
On 09/27/2010 at ~ 08:00 a leak was found between the Chukka and Gaines Injection Wells. The Effluent line was blocked in at the Waste Water Treater (inside the refinery) to stop the leak and repair the line. The leak was excavated and the line was clamped and is holding.

Describe Area Affected and Cleanup Action Taken.*
The area affected was the effluent line between the Chukka and Gaines Injection Wells at ~N32°45'54.5", W104°14'17.4". The leak was excavated to make repairs and the soil was placed into roll-off bins. The leak did not stain the soil, however Navajo will dispose of the excavated soil per analytical results. Bottom Hole samples will be collected and tested for BTEX, Metals, and Anions. This leak was just a few feet from the leaks that occurred on 2/20/2010 and 4/15/2010

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Aaron Strange	OIL CONSERVATION DIVISION	
Printed Name: Aaron Strange	Approved by District Supervisor:	
Title: Sr. Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: aaron.strange@hollycorp.com	Conditions of Approval:	Attached ☐
Date: 10/01/2010 Phone: 575-703-5057		

NON-HAZARDOUS WASTE MANIFEST

45194

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159
City/State Artesia, NM 88211-0159
(575) 748-3311
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia Permit No. [illegible]

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	

DESCRIPTION / NOTES

Cont Soil [illegible]

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name [illegible]
Address _____
City/State _____
Telephone No.

Truck No

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.** **(575) 393-1079**
Address **P.O. Box 388** Telephone No.
City/State **Hobbs, N.M. 88241-0388** **www.crihobbs.com**
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

Date and Time Received

TCP - #7520-A

NON-HAZARDOUS WASTE MANIFEST

3615

PART I: Generator Navajo Refining Co., c/o
Address PO Box 159
City/State Artesia, NM 88211-0159
(575) [illegible]
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia Permit No. [illegible]

Property Name _____
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	

DESCRIPTION / NOTES

Cont [illegible]

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent — Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name [illegible]
Address _____ Telephone No.
City/State _____ Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent — Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.** **(575) 393-1079**
Address **P.O. Box 388** Telephone No.
City/State **Hobbs, N.M. 88241-0388** **www.crihobbs.com**
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent — Date and Time Received

TCP - #7520-A

NON-HAZARDOUS WASTE MANIFEST

43148

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159
City/State Artesia, NM 88211-0159
( ) [illegible]
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia Permit No. [illegible]

Property Name
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	

DESCRIPTION / NOTES

Load Soil 12 yds

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name G Arrieaga
Address
City/State
Telephone No.
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.** **(575) 393-1079**
Address **P.O. Box 388** Telephone No
City/State **Hobbs, N.M. 88241-0388** **www.crihobbs.com**
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

Date and Time Received

TCP - #7520-A

NON-HAZARDOUS WASTE MANIFEST

48149

PART I: Generator _____

Address _____ ( ) _____

City/State _____ Telephone No.

ORGINATION OF WASTE:

Operations Center _____ Permit No. _____

Property Name _____

(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
Cont. Soil 12 Yds					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent — Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name _____

Address _____ Telephone No.

City/State _____ Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent — Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.** **(575) 393-1079** Telephone No.

Address **P.O. Box 388**

City/State **Hobbs, N.M. 88241-0388** **www.crihobbs.com** E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent — Date and Time Received

TCP - #7520-A

NON-HAZARDOUS WASTE MANIFEST

40208

PART I: Generator Navajo Refining Co. LLC
Address PO Box 159
City/State Artesia, NM 88211
(575-748)-3311
Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia Permit No. [illegible]

Property Name
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	

DESCRIPTION / NOTES

[illegible]

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name [illegible]
Address
City/State
Telephone No.
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.** **(575) 393-1079**
Address **P.O. Box 388** Telephone No.
City/State **Hobbs, N.M. 88241-0388** **www.crihobbs.com**
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

Date and Time Received

TCP - #7520-A

NON-HAZARDOUS WASTE MANIFEST

4625

PART I: Generator Arrojo Refining Co. LLC
Address PO Box 338
City/State Artesia, NM 88211-0338
( ) Telephone No.

ORGINATION OF WASTE:

Operations Center Artesia Permit No. NM0[illegible]

Property Name
(Well, Tank Battery, Plant, Facility)

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)					
Drilling Fluids		Tank Bottoms		Exempt Fluids	
Completion Fluids		Gas Plant Waste		C117 No.	
Contaminated Soil		Other Materials		Pit No.	
DESCRIPTION / NOTES					
Cone Bot. 11 Yds					

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name S Brothers
Address
City/State
Telephone No.
Truck No.

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.

Signature of Transporter's Agent

Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name **Controlled Recovery, Inc.** **(575) 393-1079**
Address **P.O. Box 388** Telephone No.
City/State **Hobbs, N.M. 88241-0388** **www.crihobbs.com**
E-mail

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

Date and Time Received

TCP - #7520-A

Holly Print PO

Version	8.2
Date	08/03/2010 07:56
User	JON
Database Updated	Yes
Organization	NRC [Navajo Refining Company]
Purchase Order	97375 [STORM WATER POND LINER]

SWEATT CONSTRUCTION INC.
POST OFFICE BOX 827
ARTESIA, NEW MEXICO 88211-0827
(505) 748-1238 - FAX (505) 748-1230
Hobbs, New Mexcio (505) 397-4541
1-800-530-8293

GENERAL DIRT WORK
OIL FIELD ROADS - PITS - LOCATIONS

July 6, 2010

Navajo

Attn: John Roberson

Dear Sir:

We are pleased to submit the following bid on your location Lewis Lake in Artesia, NM.

To furnish equipment, labor and materials to line containment pond with 40 or 60 liner. Remove dispose vegetation and smooth pond surface before liner is installed. Anchor liner edge in a one foot but one foot trench.

40 mil liner

Total bid price is $39,145.00 plus $2,813.55 sales tax.

Total bid price is $41,958.55.

~~60 mil liner~~

~~Total bid price is $49,715.00 plus $3,573.27 sales tax.~~

~~Total bid price is $53,288.27.~~

Thank you for this opportunity to bid on your project, if you have any questions please feel free to call the office.

Brad Larson
Vice President
General Manager
Artesia Division

NAVAJO REFINING COMPANY

Storm Water Pond Liner

It is hereby agreed between **NAVAJO REFINING COMPANY, LLC** (herein called "***Owner***") and of **Sweatt Construction Inc.** (herein called "***Contractor***"), that Contractor will, as an independent contractor complete with reasonable diligence and dispatch the following services described in this *CONSTRUCTION SCOPE OF WORK AGREEMENT* in conformity with all requirements, obligations, terms and conditions listed in this SCOPE OF WORK Agreement and the Master Services Agreement executed on 1/1/08.

1.0 SCOPE OF WORK

The Work of Contractor under this Agreement (the "***Work***") shall consist of the procurement, and construction of the Project in conformity with the requirements set forth in the Request for Quote (RFQ) including mutually agreed clarifications, and the Project Description set forth in this Agreement, including, without limitation, all applicable Laws and Governmental Authorizations, all in accordance with the applicable standards set forth in Exhibit A of the Master Services Agreement, and shall include the services, supervision, testing, labor, personnel, materials, supplies, equipment and machinery necessary to procure and construct the Project. Where this Agreement describes the scope of work in general terms, but not in complete detail, it is understood and agreed that the Work includes any incidental work that can be inferred to cause the Project to be complete and functioning as intended by this Agreement and to otherwise complete the Project in accordance with this Agreement. Not withstanding any provision of this Agreement to the contrary, in the event of any conflict or inconsistency between the requirements of this Agreement and Prudent Industry Practice, the requirements of this Agreement shall prevail.

2.0 PROJECT DESCRIPTION

2.1 Basin Prep
- 2.1.1 Remove vegetation
- 2.1.2 Remove large debris
- 2.1.3 Level out the bottom of the basin

2.2 Liner
- 2.2.1 Install 40 mil liner with dual thermal seams
- 2.2.2 Anchor liner edges in a 1' wide X 1' deep trench

3.0 CONTRACT PRICE

3.1 Contractor agrees to perform the Construction Scope of Work for a fixed amount of $41,958.55. (Subject to permitted adjustment, the "***Contract Price***") payable upon completion of the Construction Scope of Work. The Contract Price shall be subject to adjustment only pursuant to the provisions of Section 19 of the Master Service Agreement.

4.0 PROJECT SCHEDULE

4.1 Contractor agrees to begin the Construction Scope of Work approximately **7/26/10** and complete the Construction Scope of Work approximately **10/21/10**.

5.0 PAYMENT SCHEDULE

5.1 All invoices must be received no later than 60 days following completion of the service provided per this CONSTRUCTION SCOPE OF WORK AGREEMENT. Owner will not be liable for payment of any invoices received more than 60 days after service completion.

IN WITNESS WHEREOF, Owner and Contractor executed this Agreement as of _____.

OWNER: NAVAJO REFINING COMPANY

Michael Whatley
Refinery manager

NAVAJO REFINING COMPANY

7/23/10

Jeff Schmidlen
Manager, Engineering/Construction

CONTRACTOR:

Name Brad Larsen
Postition V-P G.M

COMPLETION REPORT ON AUTHORIZATIONS

DEPARTMENT: ENGINEERING

DATE: September 22, 2010

AUTHORIZATION NUMBER: NRC/10-C/051

COST CENTER: 201140

DATE AUTHORIZATION APPROVED..... 07/23/10

DATE WORK COMPLETE (IN SERVICE DATE)..... 09/17/10

(IN-SERVICE DATE MEANS THE DATE THE PROJECT WAS ACTUALLY PLACED IN SERVICE)

DESCRIPTION OF WORK: Project will include the following:
1. Pump rain water out of the basin.
2. Remove existing vegetation and large debris from the basin.
3. Dirt work to level out the bottom of the basin.
4. Install 40 mil liner with dual thermal seams.

LOCATION OF WORK: ARTESIA, NM

FINAL COST TO be submitted in same manner as Authorization

EQUIPMENT CODE	DESCRIPTION		ESTIMATED COST	ACTUAL COST	DIFFERENCE
1	CIVIL	(L)	30,000.00	44,959.87	(14,959.87)
		(M)	13,000.00		13,000.00
2	WASTE DISPOSAL	(L)	8,500.00		8,500.00
		(M)			
3	CONTINGENCY	(L)	4,000.00		4,000.00
		(M)	1,500.00		1,500.00
XC: LD/ORIGINAL, PT/HOLLY,		TOTALS	$57,000.00	$44,959.87	$12,040.13

DISPOSITION OF EXPENDITURES

ADD TO INVESTMENT ACCT. NO		44,959.87
ADD TO INVESTMENT ACCT. NO		
ADD TO MAINTENANCE ACCT. NO		
ADD TO MAINTENANCE ACCT. NO		
	TOTAL	$44,959.87

REMARKS: CAPITALIZATIONS

APPROVAL SIGNATURES

JOHN ROBERSON — SPONSOR — 10/13/10

JEFF SCHMIDLEY — DEPARTMENT HEAD — 10/13/10

MICHAEL WHATLEY — MANAGER

AUTHORITY FOR EXPENDITURE (AFE)

AFE Title: Storm Water Pond Liner

Company Name: NRC - Navajo Refining Company

Physical Location: Artesia

Start Date: 7/26/2010 **End Date:** 10/21/2010

Original Authorization Amt: $87,000
(Only type in the amount above if this is a supplemental AFE, otherwise, this field will be automatically populated using the totals from the cost details tab)

Supplemental Amount:

Total Amount Authorized: $87,000

Project No: NRC/10-C/ NRC/10-C/051

Document Date: 7/21/2010

Click to choose Original or Supplemental: Original

Type of AFE: C: Capital

Company No: 2000

Cost Center No: 201140 **Profit Center:** 20000

Plant No. 2000

Project Sponsor: John Roberson

Brief Description of Project (Add attachments if necessary):

Project will include the following:

1. Pump rain water out of the basin.
2. Remove existing vegetation and large debris from the basin.
3. Dirt work to level out the bottom of the basin.
4. Install 40 mil liner with dual thermal seams.

Project Justification (Add attachments if necessary):

As a condition of Navajo's Discharge Permit, GW-028 the Oil Conservation Division (OCD) requires that "All unlined Storm water retention ponds or Storm water basins shall be lined (40 – mil LLDPE or other liner approved by the OCD) with dual thermal seams by October 21, 2011.

Navajo will install a liner in one of three Stormwater ponds in 2010. This will leave one pond to be lined by October 21, 2011.

Click to choose Yes or No:

Is this project provided for in the current budget? Yes — If so, enter amount: $40,000

Is this project construction on or acquiring company owned land/ROW? Yes

Does this project include an asset retirement obligation (ARO)? No

Does this project require removal of hazardous materials? No

Accounting Review for Proper Classification? No

Date Sent to Data Integrity Group:

Project Approvals

Sponsor Approval: Signature 7/23/10
John Roberson
Printed

Department Head Approval: Signature 7/23/10
Jeff Robertson
Printed

Manager Approval: Signature
Michael Whatley
Printed

VP/President Approval: N/A
Signature
Printed

Department Review of Project

Department	Initials	Date	Required
Accounting	EZ	7.26.10	X
Treasury		7/26/10	X
Legal			X
Operations			X
Executive			X
HSE		7/27/10	X

Emmy Rolon 7.26.10

7-26-10

NRC10-C1051

AUTHORITY FOR EXPENDITURE (AFE)

AFE Title: Storm Water Pond Liner

Company Name: NRC - Navajo Refining Company

Document Date: 7/21/2010

Type of AFE: C Capital

Company No.: 2000

Cost Center No.: 221340 Plant No. 2000

LEVEL	WBS LINE ITEM LEVEL			DESCRIPTION	FERC CODE		LABOR	MATERIAL	TOTAL
	Base 1	2	3		G	T			
	NRC10-CI	141		Refinery Asset - Line 90					
2			1	Civil			$ 30,000	$ 13,000	$ 43,000
2			2	Waste Disposal			$ 8,500		$ 8,500
		000		Contingency			$ 4,000	$ 1,500	$ 5,500
				TOTALS (rounded to the nearest hundred)			$ 42,500	$ 14,500	$ 57,000

501364
501367
501368

> 51,500

1 of 1

PO 79959 AR 69721 SWEATT POND LINER WHALEY

Navajo Refining Company

Purchase Order 79959

Show this number on invoices, shipping documents, tags, boxes, etc.

Delivery Address	Invoice Address
NAVAJO REFINING COMPANY ATTENTION: MAIN WAREHOUSE 501 EAST MAIN STREET ARTESIA NM 88210	NAVAJO REFINING COMPANY ATTENTION: VENDOR PAYABLE GROUP PO BOX 1490 ARTESIA NM 88210

SWEATT CONSTRUCTION CO
PO BOX 827
ARTESIA NM 88211-0827
US

Telephone 800-530-8293
Fax No. 505-748-1230

Revision Number 1
All previous revisions are no longer valid.
Order Date 05/28/2009
Purchase Order Due Date 06/30/2009
Note: All tax calculations are estimates only for internal use.

Payment Terms
NET 30 DAYS

MATERIALS AND LABOR FOR LINING OF WHALEY POND FOR BOB BLOHM PER BID FROM BRAD LARSON DATED 05/08/09.

CONFIRMED TO BRAD LARSON BY EMAIL AT blarson3717@hotmail.com ON 05/28/09.

Line	Task	Date Hours Requested	UOM	Est. Total Tax Quantity Rate	Total
10	LINING **Activity/PO Line Comments:** PROVIDE MATERIALS AND LABOR FOR THE INSTALLATION OF 40 MIL LINER IN STORMWATER RETENTION POND (WHALEY POND).	06/30/2009			25,660.0000

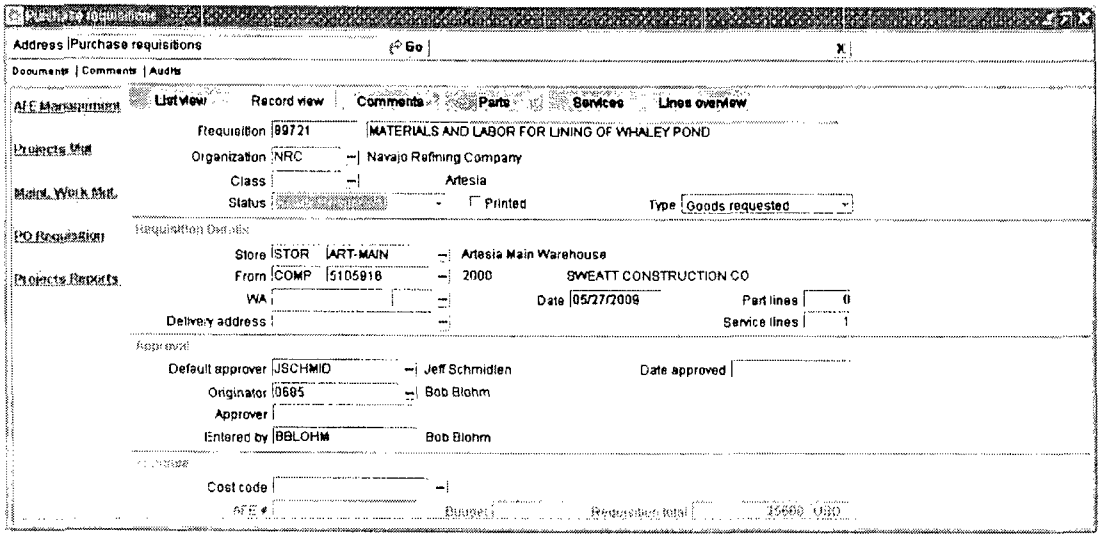
Services Total 25,660.0000

Jon Ross 28-May-2009
Approver

Total US Dollar 25,660.0000

WHALEY TOWN

PR 89721 PO COVER



Purchase requisitions

Address | Purchase requisitions | Go

Documents | Comments | Audits

AFE Management | Projects Mat | Maint. Work Mgt. | PO Requisition | Projects Reports

List view | Record view | Comments | Parts | Services | Lines overview

Requisition: 89721 MATERIALS AND LABOR FOR LINING OF WHALEY POND

Organization: NRC — Navajo Refining Company

Class: — Artesia

Status: [redacted] Printed Type: Goods requested

Requisition Details

Store: STOR ART-MAIN — Artesia Main Warehouse

From: COMP 5105916 — 2000 SWEATT CONSTRUCTION CO

WA: — Date: 05/27/2009 Part lines: 0

Delivery address: — Service lines: 1

Approval

Default approver: JSCHMID — Jeff Schmidlen Date approved:

Originator: 0695 — Bob Blohm

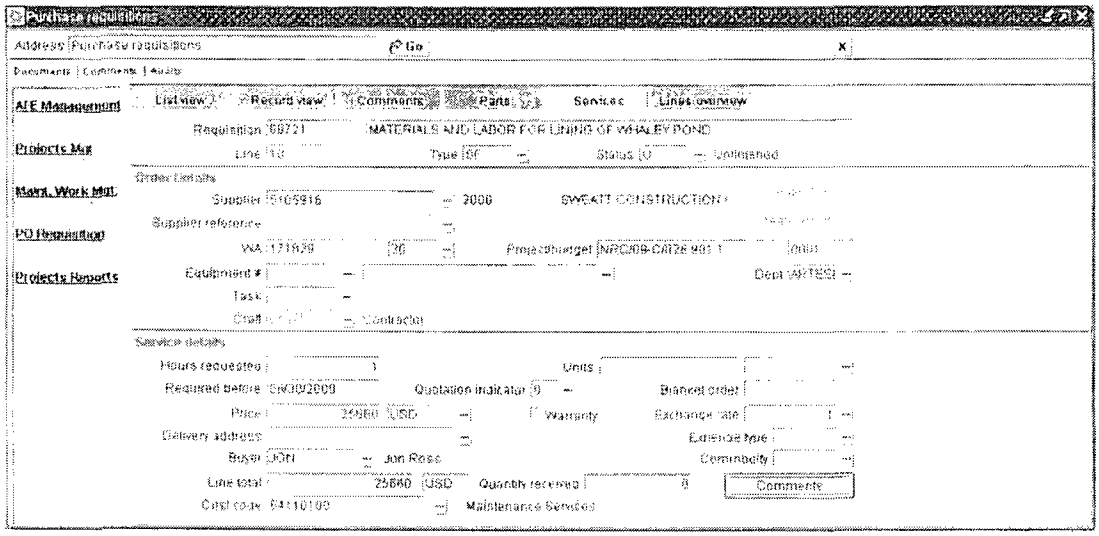
Approver:

Entered by: BBLOHM Bob Blohm

Charges

Cost code: —

AFE # Budget Requisition total: 35600 USD


Purchase requisitions
Address Purchase requisitions
Go
Document | Comments | Audit
A/E Management
Projects Map
Maint. Work Mgt.
PO Requisition
Projects Reports
List view
Record view
Comments
Parts
Services
Lines overview
Requisition 69721
MATERIALS AND LABOR FOR LINING OF WHALEY POND
Line 10
Type BC
Status 0
Unassigned
Order details
Supplier 51059916
2000
SWEATT CONSTRUCTION
Supplier reference
WA 171639
26
Project/budget NPC009-CAT26 WO: 1
Dept WATER
Equipment #
Task
Staff
Contractor
Service details
Hours requested 1
Units
Required before 5/6/2009
Quotation indicator 0
Blanket order
Price 25660 USD
Warranty
Exchange rate 1
Delivery address
Estimate type
Buyer JOH
Jon Ross
Commodity
Line total 25660 USD
Quantity received 0
Comments
Cost code 641101.03
Maintenance Services

Comments Event (171829#20)

Line 10 / Print ENGLISH

PROVIDE MATERIALS AND LABOR FOR THE INSTALLATION OF 40 MIL LINER IN STORMWATER RETENTION POND (WHALEY POND) PER QUOTE DATED 5/8/09 FROM BRAD LARSON.

Created 05/27/2009 11:51 Date updated

By user BBLOHM By user

SWEATT CONSTRUCTION INC.
POST OFFICE BOX 827
ARTESIA, NEW MEXICO 88211-0827
(505) 748-1238 - FAX (505) 748-1230
Hobbs, New Mexcio (505) 397-4541
1-800-530-8293

GENERAL DIRT WORK
OIL FIELD ROADS - PITS - LOCATIONS

May 08, 2009

Navajo

Attn: Bob Blohm

Dear Sir:

We are pleased to submit the following bid on your location Whaley Pond Liner in Artesia, NM.

To furnish labor and equipment and materials to line containment pond with 40 mil liner. Smooth pond surface before liner is installed. Anchor line edge in a one foot by one foot trench.

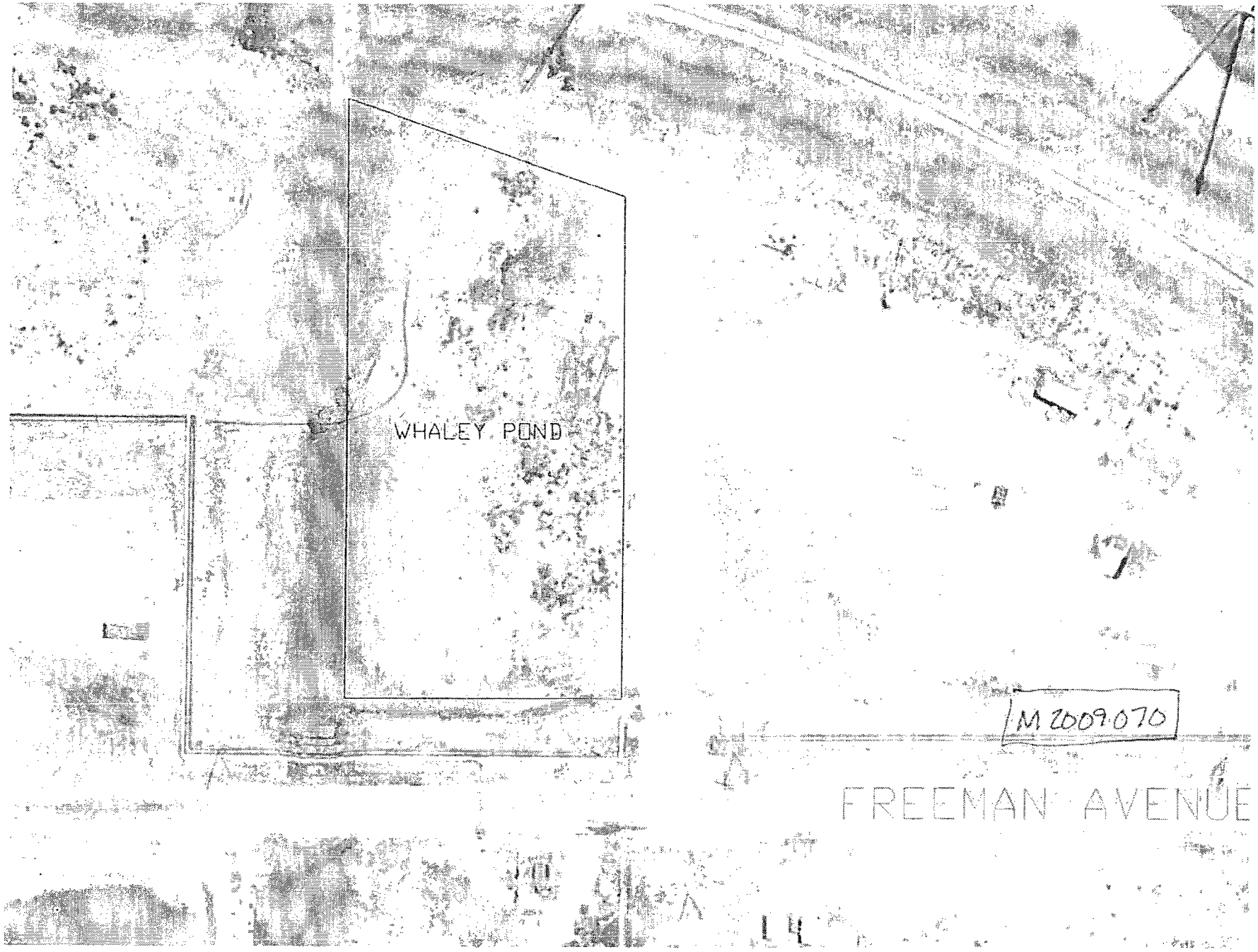
Bid price is $23,965.00 plus $ 1,692.53 sales tax.

Total bid price is $25,657.53.

Thank you for this opportunity to bid on your project, if you have any questions please feel free to call the office.

Brad Larson
Vice President
General Manager

PR 89721


WHALEY POND
M 2009 070
FREEMAN AVENUE

86245 NMB

Sweatt Construction, Inc. - Artesia Division

PO Box 827
Artesia NM 88210-

Invoice

Navajo Refining
P.O. Box 159
Artesia NM 88211-0

"REC'D IN AP"
JUN 19 2009

Date	Invoice #
6/11/2009	609050

PO# 79959

Ordered by	Lease Name
Bob Blohm	WHALEY POND LINER

Work Performance To furnish labor, material and equipment to line containment pond with 40 mil liner. Smooth pond surface before liner is installed. Anchor liner edge in a one foot by one foot trench.
Artesia

SCANNED
JUN 19 2009

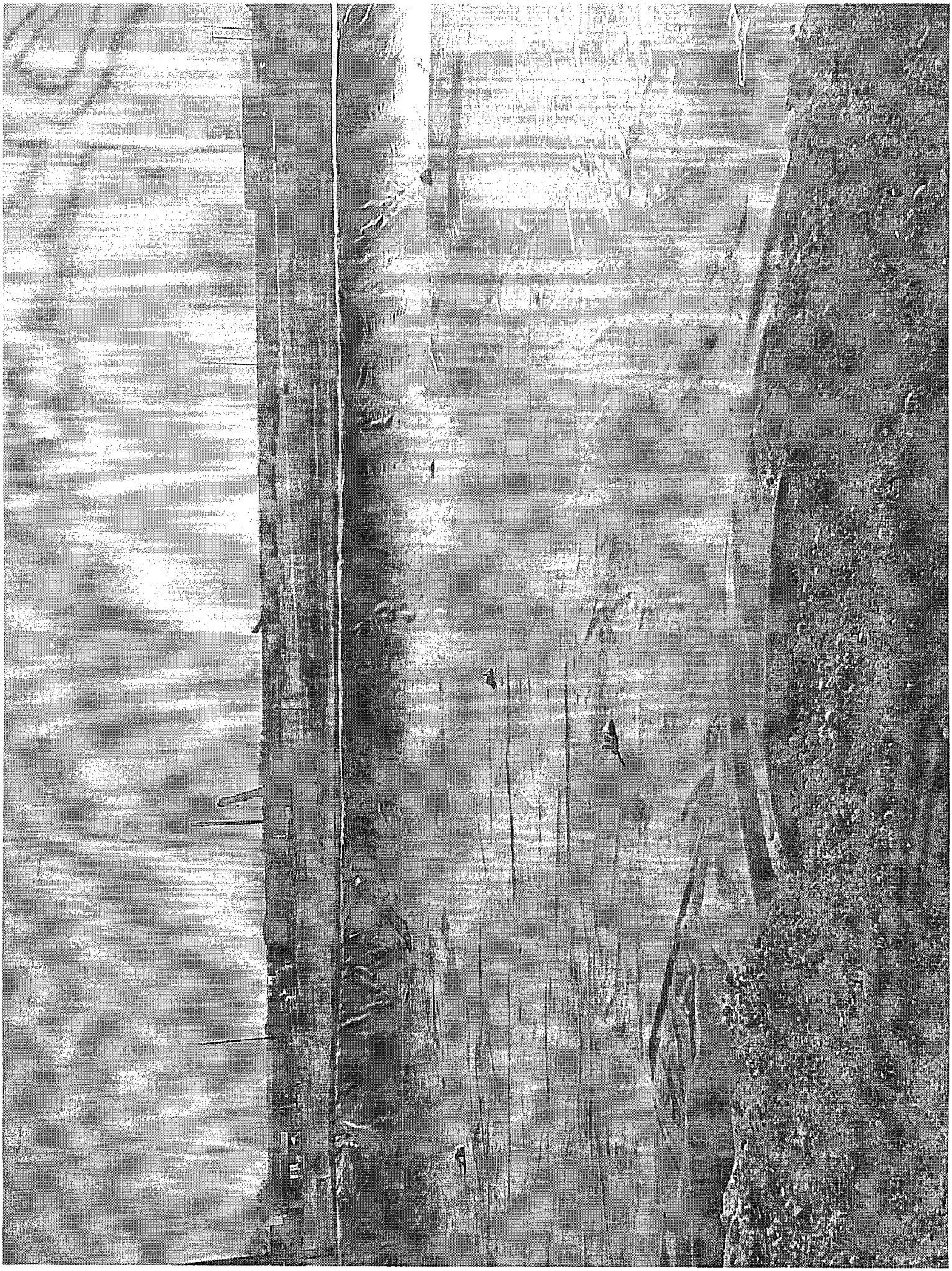
Date	Unit # / Item	Description	Hours/Quantity	Rate	Total Amount
5/27/2009	BID PRICE	BID PRICE	1.00	23,965.00	23,965.00

6/22/09

Subtotal	23,965.00
Sales Tax	1,691.93
Total	25,656.93

THANK YOU FOR YOUR BUSINESS !

Phone #	Fax #
(575) 748-1238	(575) 748-1230



Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, October 12, 2010 4:54 PM
To: 'Moore, Darrell'; 'Lackey, Johnny'
Cc: Hill, Larry, EMNRD; VonGonten, Glenn, EMNRD
Subject: Artesia Refinery Meeting Minutes & Follow-up Items
Attachments: Communication Meeting 10-6-10.doc

Darrell and Johnny:

Good morning. Please find attached the meeting minutes from our October 6, 2010 meeting in Santa Fe.

The OCD has highlighted sections where it has requested information by date specified and if not specified, the OCD request that a response be received by COB November 5, 2010.

Thanks for your cooperation and the opportunity to jointly review the discharge permit and communicate on refinery issues. The OCD will attempt to alot more time for future meetings to allow for complete discussion of issues raised during the meeting. The NMOGA Representative participation in the meeting was a surprise and OCD requests that the operator consider adding agenda items for any guest that it may decide to bring to the meetings and for questions he/she may have.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/index.htm
(Pollution Prevention Guidance is under "Publications")

Navajo Artesia Refinery Meeting Minutes (GW-028)
Santa Fe, OCD (Oct. 6, 2010)
10:00 a.m. – Noon

Navajo Refinery Discharge Agenda Items:

Attendees: Carl Chavez (OCD), Glenn von Gonten (OCD), Miguel De La Cruz (City of Lovington), Johnny Lackey (NRC), Darrell Moore (NRC), and Debra Seligman (NMOGA Representative)

Agenda Items

11:45 a.m. Artesia Refinery (GW-028) Communication

This section of the agenda for the Lovington Refinery is related to the Artesia Refinery (GW-028) discharge permit at OCD Online recently created "Meetings" thumbnail.

11:47 a.m. Discharge Permit Items (GW-028)

- Section 12B: The OCD indicated that it was issuing a "Minor Modification" to the permit by replacing all environmental sampling in the discharge permit including the table with a reference to the "Facility-Wide Ground Water Monitor Plan" (FWGWMP), which is jointly administered by NMED and OCD. Also, the operator was instructed that it is to reference NMED and OCD (agencies) on all environmental monitoring correspondence or the FWGWMP.

- Section 14: Provide summary of the number and volume of underground sanitary tanks that were decommissioned and material and volume used during the process. Section 17(iv): Sanitary waste water and closure of underground tanks. OCD requests documentation verifying the number, tank volume, materials used, etc. to decommission tanks. OCD needs documentation that confirms work was actually performed.

- Section 16: OCD requests final reports with analytical data and photos verifying contaminated soils from releases at the effluent line were cleaned-up.

- Section 17(i): According to the operator, liners were placed in 2 of the 3 ponds with discharge permit allowing this to be completed by the expiration date of the permit.

  OCD requests details (i.e., engineering design and construction "as built" details, date installed and photos, etc.) and location of the ponds that were lined.

- Section 20C(iii): Confirm that secondary containment was installed at the former waste water API or that the operator is working to schedule work to be completed before the expiration date (10/21/2011) of the permit.

- Section 22: A "Recommendations" sections needs to be added to the Annual Report from now on.

- *Section 24: The financial assurance (FA) deadline of 9/30/2009 was missed. OCD verified that the FA was for facility decommissioning and 30 year post ground water monitoring period. OCD requires that similar to the Lovington Refinery, the operator shall submit an FA estimate to the OCD by December 31, 2010 for OCD review and a determination of final bond amount to satisfy this section of the permit. A bond submittal shall be submitted within 1 month of the OCD final assessed amount.*

11:50 p.m. Issues Identified & Miscellaneous

- Free-product recovery system is down due to engineering under-design of the pipe, lack of transfer pump stations, adequately sized pumps, etc. and the operator has contracted with Arcadis to provide a work plan by November 15, 2010 to the OCD.

- Suspected effluent line leaks near UIC Class I (NH) Disposal Wells is thought to be associated with construction of line with "tattle tales" to observe any leakage along the line. The operator suspects it has experienced leakage problems with the very leak detection system design that was supposed to detect leakage. Operator drives the line 2x/day looking for any new leaks. OCD expects to receive a final C-141 with analytical verification of soil remediation and photo(s) for the 3 releases that occurred within 10 to 15 of one another.

  Operator will be proposing fiberglass line instead of steel line to reduce corrosion, less cleaning, and can still MIT the line.

- The operator provided two Praxair Tests (tests) on tanks at the refinery conducted in 2008 and 2009. The tanks passed the tests. The next round of tanks at the refinery may also include all of the tanks at the Lovington Refinery? The Praxair Method has not been applied to the Lovington Refinery yet where tank testing is not scheduled until 2013. Tanks are gauged 2x/day and equipped with radar devices for spill overflow prevention.

11:55 a.m. Miscellaneous & Path forward

OCD inquired about two potential spill locations from a recent Google Earth GIS view of the facility near Tank 1214 and southeast of MW-2. OCD Requests that the operator inspect these areas to verify that spills/releases exist or are not present in the field. The

operator should respond to this item within 4 weeks of the meeting date or by COB on November 5, 2010.

Noon Lunchtime and end of meeting

Chavez, Carl J, EMNRD

Subject:	Navajo Refinery Discharge Permit Meeting (GW-014)
Location:	OCD Office (Wendell Chino Building) 1220 Sout St. Francis Dr., Santa Fe, NM 87505
Start:	Wed 10/6/2010 10:00 AM
End:	Wed 10/6/2010 12:00 PM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Chavez, Carl J, EMNRD
Required Attendees:	Lackey, Johnny; Moore, Darrell; Michael Leighton; VonGonten, Glenn, EMNRD; Hill, Larry, EMNRD; 'Miguel De La Cruz'

Agenda Items

10:00 a.m. Refinery brief update on discharge permit related activities with ID of any issues- Johnny Lackey, et al.

10:15 a.m. Environmental Investigation & Monitor Report Discussion- Johnny Lackey, et al.

10:45 a.m. Discharge Permit Review- Carl Chavez & Michael Leighton

11:00 a.m. 5 Minute Break

11:05 a.m. Discharge Permit Review Continued- same as above

11:30 a.m. Operator and Agency Issues

11:45 a.m. Artesia Refinery (GW-028) Communication

11:55 a.m. Miscellaneous & Path forward

Noon Lunchtime

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Tuesday, August 10, 2010 8:22 AM
To: Chavez, Carl J, EMNRD
Cc: Michael Leighton; Lackey, Johnny
Subject: Lovington Discharge Plan

Carl

1. All 15 of the new monitor wells were installed by June 15, 2010.

2 Drilling of 15 additional boreholes to a depth of 105-110 ft. as required by OCD was completed on June 28. There were 4 borings drilled in the vicinity of the crude manifold area and 11 drilled in the area of the wastewater separator. The final soil analytical reports for these borings were received July 20.

3. *Development of the new monitor wells occurred* beginning July 6 and was completed the following week.

4. A professional surveyor located wells and surveyed elevations the week of July 12 and provided the results the week of July 19.

5. Our deep well purge pump was sent to the shop the week of July 19 for repairs. After two weeks of testing and no diagnosis as to what the problem is, we rented one which arrived August 6, 2010. We will begin the semi-annual sampling of the 29 monitor wells and 3 water wells this week (midweek). I expect it will take at least until Monday or Tuesday of the following week to complete the sampling. Sample results should be received around the end of the month.

6. Remaining hydrologic field work includes an aquifer test which will most likely be conducted at the end of the month.

Based on all the remaining work, including preparation of maps, tables of results of soil analytical testing, water levels and water quality results, boring and well logs, and aquifer test analysis, we should have a prepared report by September 30 for submittal to OCD and the City of Lovington.

The soil analytical results, with just a few exceptions in the area of the wastewater separator, show no contamination of subsurface material from surface to groundwater. No hydrocarbon product or hydrocarbon odor was observed in any of the new monitor wells. And even in the area of the wastewater separator no oil-saturated soil was found. The entire facility is very clean and I expect the groundwater sampling to show confirm that with the possible of exception of known benzene in MW-11 and chlorides from non-refinery sources in a couple of monitor wells. There is nothing new and no "smoking gun" in anything found to date.

If anyone from OCD or the City would like to witness the sampling this week (starting tomorrow Wednesday) you are more than welcome.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

Navajo Refining Company Meeting
Santa Fe 10/6/2010

10 — Noon

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