

PHOTOGRAPHIC RECORD

OU2 Site Inspection

Photo No. 1

View Direction of Photo:
Southeast towards 20th Street
from Washington Street

Date: 12/1/10

Description:
OU2 site security
fencing/screening. The
fencing is over 6 feet tall. The
property around the fenced
area is landscaped and well
maintained. No evidence of
vandalism or unauthorized
loitering around the perimeter
of the facility was observed.



Photo No. 2

View Direction of Photo:
Northwest from Washington
Street

Date: 12/1/10

Description:
OU2 site security
fencing/screening showing
Washington Street access via
a retractable fence equipped
with an entry keypad (on the
far left of the photo). An
additional keypad controlling
fence operation is located on
the interior of the fenced area.



PHOTOGRAPHIC RECORD

OU2 Site Inspection

Photo No. 3	
View Direction of Photo: Northeast from 20 th Street	
Date: 12/1/10	
Description: OU2 site security fencing showing 20 th Street access via a retractable fence with an entry keypad. This keypad is equipped with a mechanism for fire department access. Similar to the Washington Street access, an additional keypad controlling fence operation is located on the interior of the fenced area.	

Photo No. 4	
View Direction of Photo: West from 20 th Street	
Date: 12/1/10	
Description: OU2 site security fencing along the northern perimeter of the property. The building near the center of the photograph is the Treatment Building that forms part of the site enclosure. An office with access only to outside the compound (the entry is located in this alleyway) is used by the City of Phoenix Police Department as a field office.	

Photo No. 5

View Direction of Photo:
South from I-10 ADOT ROW

Date: 12/1/10

Description:
EW-N well site showing security fencing, signage and access secured by a chain and lock. Access to this well site is further secured by ADOT ROW security fencing.



Photo No. 6

View Direction of Photo:
North from inside the EW-N well site

Date: 12/1/10

Description:
Lineshaft turbine pump installed in EW-N. Minor rust discoloration noted on exterior of piping – system appears intact and well maintained.



Photo No. 7

View Direction of Photo:
Within EW-N Electrical/Control Building

Date: 12/1/10

Description:
Representative photograph of all well site electrical/control buildings. These buildings are climate controlled and appear to be well kept. Direct reading instrument panels are located in these buildings.



Photo No. 8

View Direction of Photo:
North from Van Buren Street

Date: 12/1/10

Description:
EW-M well site showing security fencing and access secured by a chain and lock. This well site is located on a relatively busy street in metropolitan Phoenix.



<p>Photo No. 9</p>	
<p>View Direction of Photo: Southwest from inside the EW-M well site</p>	
<p>Date: 12/1/10</p>	
<p>Description: Lineshaft turbine pump installed in EW-M. Lubrication leak noted – per discussion with the treatment system operator, the leak has undergone troubleshooting and has been assessed as minor. No issue with pump operation noted. Some direct reading instrument panels on above ground piping were no longer locally readable and a pipe clamp was noted to be missing. Per the operator – the equipment is functioning properly and data are remotely accessible.</p>	

<p>Photo No. 10</p>	
<p>View Direction of Photo: West from EW-S piping within Treatment Compound</p>	
<p>Date: 12/1/10</p>	
<p>Description: View of EW-S piping in the foreground (this well is equipped with a submersible pump), the EW-S electrical/control building to the left, the driveway to the right, and the 'A' carbon vessels in the background. Both the 'A' and 'B' vessels (not pictured) are located within a subgrade double containment structure (the 'A' and 'B' vessels operate together as a pair in series). The interior of the treatment compound is clean and well kept.</p>	

Photo No. 11

View Direction of Photo:

South from within the secondary containment structure

Date: 12/1/10

Description:

View of representative local control panel and carbon vessel valving (for the 5A and 5B vessel pair). The valves control process flow – directing which vessel is the lead and which is the lag vessel – and can be remotely actuated. The water puddle observed at the base of this photograph is from wash down of the area prior to the site inspection.



Photo No. 12

View Direction of Photo:

West from the carbon vessel catwalk

Date: 12/1/10

Description:

An overhead catwalk serves as access to carbon vessels and associated piping. Of the nine pairs of vessels installed at the facility, only five pairs with a ready spare pair were in operation at the time of the site inspection. The three remaining pairs were empty with open access hatches (bird wire covers the opening – see representative units in the right of the photograph). Minor rust discoloration and hard water deposits were noted on the exterior of some piping and vessels.



Photo No. 13

View Direction of Photo:
Looking up from within the secondary containment structure

Date: 12/1/10

Description:
Repaired tank nozzle of Vessel 6A. The weld associated with this vent line (and the same line on Vessel 2B) had a minor noted leak and was repaired by a certified welder in 2008 at the time six pairs of vessels were relined.



Photo No. 14

View Direction of Photo:
South from the carbon vessel catwalk

Date: 12/1/10

Description:
Pipes within the secondary containment area are labeled. In some instances the labels are beginning to become unreadable due to exposure to the elements.

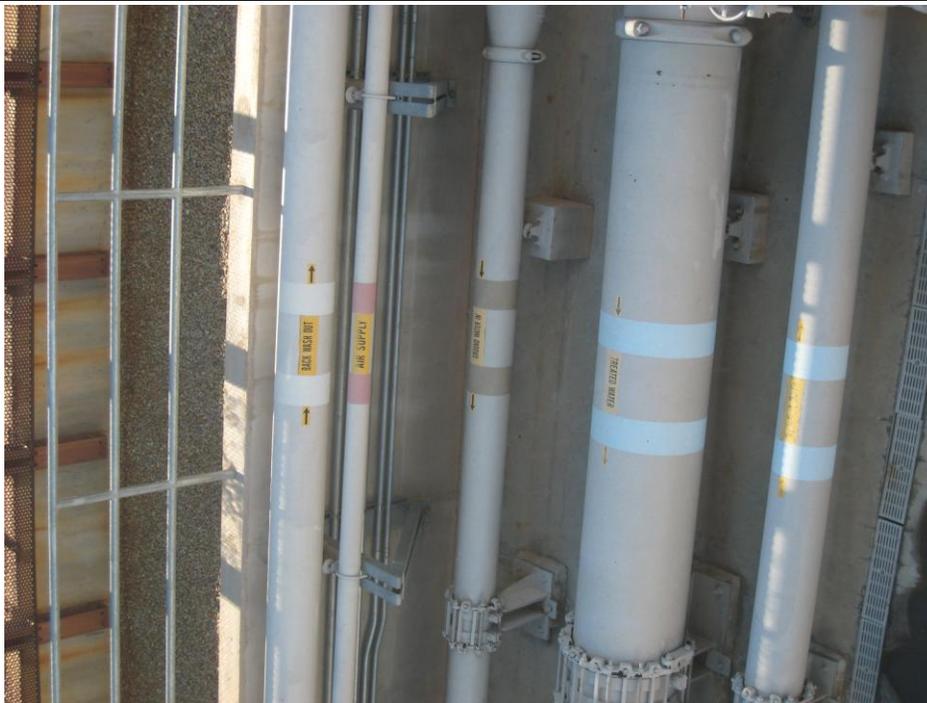


Photo No. 15

View Direction of Photo:
East from the carbon vessel catwalk

Date: 12/1/10

Description:
View of treated groundwater piping in the secondary containment structure. The blue hand wheel (in the center of the picture) is attached to process valving that can isolate flow from the treatment facility. Flow metering equipment is located on middle pipe shown in the right of this photograph (the other piping is used to direct treated water back to the carbon vessels for backwashing).



Photo No. 16

View Direction of Photo:
South from within the secondary containment structure

Date: 12/1/10

Description:
The grate in this photograph (which is turned sideways) covers a level-controlled sump equipped with a pump that all water collected in the secondary containment structure gravity feeds into. Multiple alarms within the sump and above the sump (activated by floats) are used to notify the operator and initiate various process responses (including on a high-high level, complete shut down of process flow).



Photo No. 17

View Direction of Photo:
South from treatment compound driveway

Date: 12/1/10

Description:
View of subgrade backwash wastewater tank (in the center of the photograph) and Carbon Vessels 1A and 1B (in the left of the photograph). Water from this tank is discharged (under permit) to the City of Phoenix sewer.



Photo No. 18

View Direction of Photo:
Into the backwash wastewater tank

Date: 12/1/10

Description:
View of discharge piping and level control floats within the backwash wastewater tank. All floats are regularly tested to ensure proper function.



PHOTOGRAPHIC RECORD
OU2 Site Inspection

Photo No. 19

View Direction of Photo:
West from Grand Canal bank

Date: 12/1/10

Description:
Discharge structure from treatment facility.



Photo No. 20

View Direction of Photo:
West in Adams Street

Date: 12/1/10

Description:
Representative OU2 clustered monitoring wells (NW08-S, M, and D).



FIVE-YEAR REVIEW SITE INSPECTION CHECKLIST

Site Name: Motorola 52 nd Street Superfund Site	EPA ID: AZD009004177
Review Report: 2011 Sitewide Five-Year Review	Review Period: August 2006 - October 2010
Treatment Facility Name: 20 th Street Treatment Plant	Operable Unit Region: 2

III. ON-SITE DOCUMENTS AND RECORDS VERIFIED (check all that apply)

1. O&M Documents:			
<input checked="" type="checkbox"/> July 2004 O&M Manual	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input type="checkbox"/> O&M Manual	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> O&M Manual	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Groundwater Monitoring Plan (SAP)	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Treated System Monitoring Plan (SAP)	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input type="checkbox"/> Ambient Air Monitoring Plan	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Storm Water Pollution Prevention Plan (SWPPP)	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> As-Built Drawings	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Maintenance Logs	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input type="checkbox"/> _____	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
Remarks: <u>The Generally the documentation is very well maintained and organized, additionally the site staff are well versed in the procedures and requirements discussed in the documentation.</u>			
2. Site-Specific Health and Safety Plan:			
<input checked="" type="checkbox"/> Contingency plan/emergency response plan	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
Remarks: _____			
3. Permits and Service Agreements:			
<input type="checkbox"/> Air discharge permit	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Effluent discharge permit/agreement	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Waste disposal permit/agreement	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input type="checkbox"/> Poor Quality Groundwater Withdrawal Permit (PQGWP)	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
Remarks: _____			
6. Discharge Compliance Records:			
<input type="checkbox"/> Air	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Water (effluent)	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input type="checkbox"/> _____	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
Remarks: _____			
7. Daily Access/Security Logs:			
	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
Remarks: <u>The facility is completely enclosed by a site wall with rolling gates. Gate access is via either a combination lock or can only be opened from the inside. A daily visitor site log is maintained onsite.</u>			
8. Operations, Maintenance, and Inspection Logs:			
<input checked="" type="checkbox"/> Daily Activity Logs	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Monthly Operations Logs	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Pump/Blower Maintenance Logs	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Instrumentation Calibration Logs	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Peripheral Equipment Maintenance Logs	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input type="checkbox"/> Vent Scrubber Valve Sequence Logs	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Extraction Well Maintenance Logs	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Groundwater Monitoring Well Maintenance Logs	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input type="checkbox"/> Solvent Recovery and Disposal Logs	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Carbon Regeneration Logs	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Liquid Phase Carbon Changeout Logs	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Vapor Phase Carbon Changeout Logs	<input checked="" type="checkbox"/> Readily Available	<input checked="" type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input type="checkbox"/> SWPPP Inspection Logs	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> SWPPP Discrepancy Logs	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> _____	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input type="checkbox"/> N/A
<input type="checkbox"/> _____	<input type="checkbox"/> Readily Available	<input type="checkbox"/> Up to Date	<input type="checkbox"/> N/A

FIVE-YEAR REVIEW SITE INSPECTION CHECKLIST

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Treatment Facility Name: 20 th Street Treatment Plant	Operable Unit Region: 2

V. ACCESS AND INSTITUTIONAL CONTROLS

1. Access Restrictions:

A. *Perimeter Fencing:* Good Condition Poor Condition N/A
 Remarks: The 20th Street system is located within a completed walled compound. Compound perimeter fencing is a combination of block walls and wrought iron fencing 6 to 8 ft high (see Photos 1, 2, 3, and 4 in the attached OU2 Site Inspection Photographic Record).

B. *Access Gates:* Good Condition Poor Condition N/A
 Remarks: Access gates are located on the east and south sides of the compound (see Photos 2 and 3). Gates are kept locked and either require a code or can only be opened from inside the compound.

C. *Signs and Other Security Measures:* Good Condition Poor Condition N/A
 Remarks: Signs are posted notifying personnel of access restrictions at all access gates.

2. Institutional Controls (ICs):

A. *Implementation and Enforcement:*

Site conditions imply ICs not properly implemented Yes No N/A
 Site conditions imply ICs not being fully enforced Yes No N/A
 Type of monitoring (e.g., self-reporting, drive-by): Not applicable
 Frequency: Not applicable
 Responsible party/agency: Not applicable
 Contact: Not applicable

Name	Title	Date	Phone No.
Reporting is up-to-date	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Reports are verified by the lead agency	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Specific requirements in deed or decision documents have been met	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Violations have been reported	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Other problems or suggestions:	<input type="checkbox"/> Report attached		

Remarks: There are no ICs in decision documents. State regulations serve as non-site specific ICs by preventing the approval of new production wells that could adversely impact remediation system operations by resulting in a drawdown that would promote migration of contamination into uncontaminated wells (Arizona Administrative Code [AAC] §R12-15-1302) and by requiring the Arizona Department of Water Resources (ADWR) to 'develop a review process for all applications to drill, deepen, or modify a well located in an area of known or anticipated ground water contamination to insure that proposed wells are designed in a manner to prevent vertical-cross contamination' (Arizona Revised Statutes [ARS] §45-605).

B. *Adequacy:* ICs are adequate ICs are inadequate N/A
 Remarks: _____

3. General:

A. *Vandalism/Trespassing:* Location shown on site map No vandalism evident
 Remarks: No vandalism of Site structures was evident.

B. *Land use changes on site:* N/A
 Remarks: _____

C. *Land use changes off site:* N/A
 Remarks: _____

VI. GENERAL SITE CONDITIONS

1. Roads: Applicable N/A
 Roads Condition: Location shown on site map Roads Adequate N/A
 Remarks: _____

2. Other Site Conditions: Not applicable
 Remarks: _____

FIVE-YEAR REVIEW SITE INSPECTION CHECKLIST

Site Name: Motorola 52 nd Street Superfund Site	EPA ID: AZD009004177
Review Report: 2011 Sitewide Five-Year Review	Review Period: August 2006 - October 2010
Treatment Facility Name: 20 th Street Treatment Plant	Operable Unit Region: 2

VII. GROUNDWATER REMEDIES

1. **Groundwater Extraction Wells, Pumps, and Pipelines:** Applicable N/A

A. *Pumps, Wellhead Plumbing, and Electrical:*

Good condition All required wells properly operating Needs maintenance N/A

Remarks: Pumps are functioning as required, contractor has replaced pumps as they breakdown.

B. *Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances:*

Good condition Needs maintenance

Remarks: The site piping is in good repair and preventative maintenance activities include pipe replacement when necessary. Some sun bleaching of the site piping has worn the piping labels near the east of the compound.

C. *Spare Parts and Equipment:*

Readily Available Good Condition Requires upgrade Needs to be provided

Remarks: Not assessed during site visit.

2. **Treatment System:** Applicable N/A

A. *Treatment Train* (check components that apply):

Metals removal Oil/water separation Bioremediation

Air stripping Carbon adsorbers

Filters: 18

Additive (e.g., chelation agent, flocculent): None

Others:

Good condition Needs maintenance

Sampling ports properly marked and functional

Sampling/maintenance log displayed and up to date

Equipment properly identified

Quantity of groundwater treatment annually: 956 to 1,040 million gallons per year (from 2006 through 2009)

Quantity of surface water treatment annually: None

Remarks: The system is staffed by an operator Monday thru Friday, during normal work hours. A computer-based process monitoring system also notifies treatment system staff of specific alarm conditions 24 hours per day, 365 days per year via a dedicated phone line and paging service.

B. *Electrical Enclosures and Panels* (properly rated and functional):

N/A Good condition Needs maintenance

Remarks: Rating not verified - system running without apparent electrical issues.

C. *Tanks, Vaults, Storage Vessels:*

N/A Good condition Proper secondary containment Needs maintenance

Remarks: Equipment appears intact. However warning signs on the carbon adsorbers are sunbleached, unreadable, and should be replaced. Also the onsite wastewater sump is not currently labeled as a confined space. The sump should be labeled in accordance with OSHA requirements.

D. *Discharge Structure and Appurtenances:*

N/A Good condition Needs maintenance

Remarks: See Photo 19 of the OU2 Inspection Photolog.

E. *Treatment Building(s):*

N/A Good condition (esp. roof and doorways) Needs repair

Chemicals and equipment properly stored

Remarks:

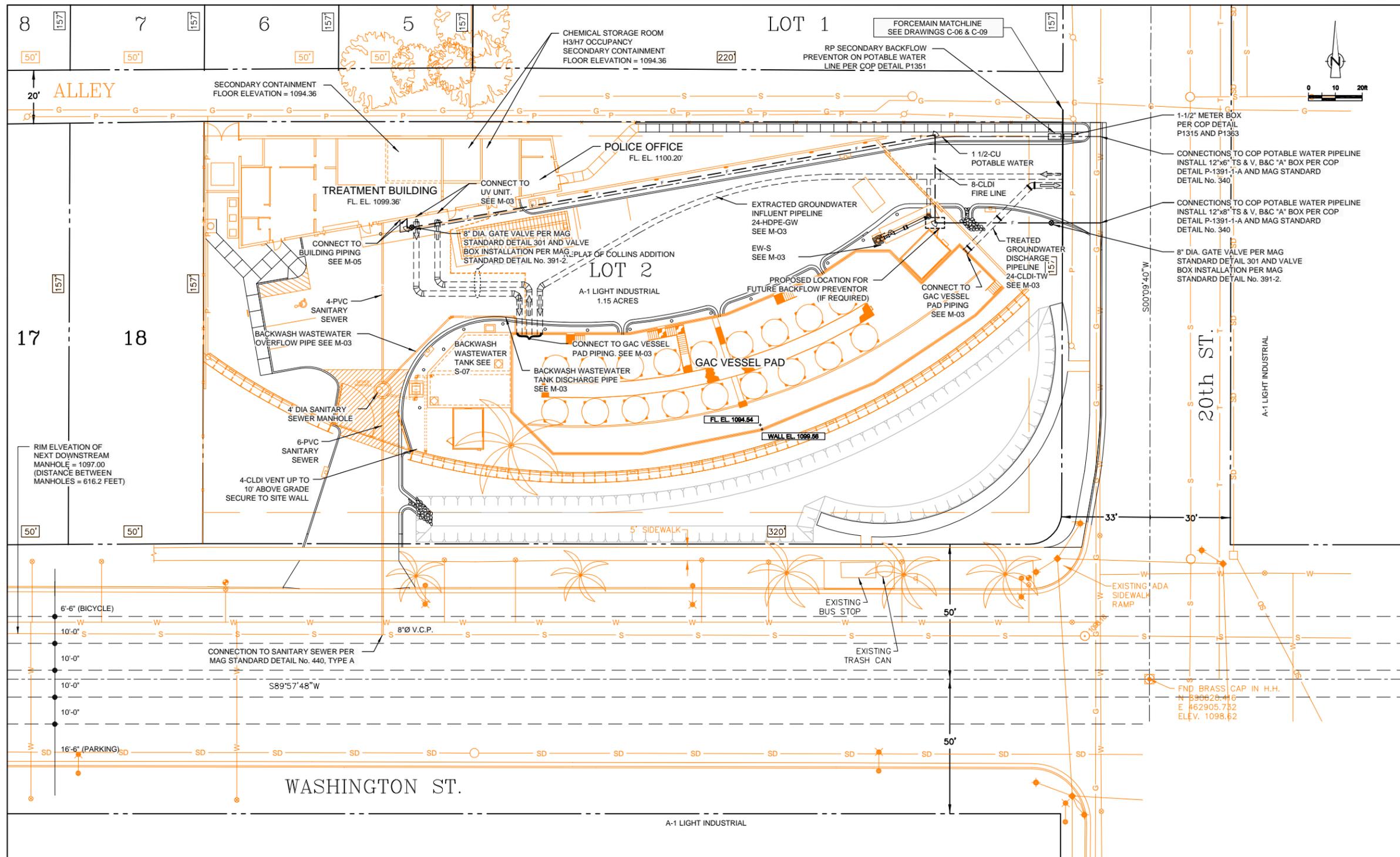
F. *Monitoring Wells* (pump and treatment remedy):

Properly secured/locked Functioning Routinely sampled Good condition

All required wells located Needs maintenance N/A

Remarks:

FIVE-YEAR REVIEW SITE INSPECTION CHECKLIST	
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Treatment Facility Name: 20 th Street Treatment Plant	Operable Unit Region: 2
3. Monitoring Data: <input checked="" type="checkbox"/> Applicable <input type="checkbox"/> N/A	
A. Monitoring data: <input checked="" type="checkbox"/> Is of acceptable quality	
B. Monitoring data suggest: <input checked="" type="checkbox"/> Contaminant concentrations are declining	
<input checked="" type="checkbox"/> Is routinely submitted on time <input checked="" type="checkbox"/> Groundwater plume is effectively contained	
VIII. OTHER REMEDIES	
If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.	
Remarks:	
IX. OVERALL OBSERVATIONS	
1. Adequacy of Remedy:	
<p>The primary operating component of the OU2 interim remedy is a groundwater pump and treat system which is intended to contain the contaminated groundwater plume near I-10. The system has operated for approximately 10 years and has effectively extracted and treated a significant quantity of contaminated groundwater. Specific plume containment issues have been noted in the past; however, the extraction network has generally been effective in reducing the migration of impacted alluvial groundwater downgradient of OU2. Thus, the system is adequate from an 'interim remedy' perspective but there are potential optimizations that should be considered in the near future and during final remedy scoping/development (see Opportunities for Optimization below).</p>	
2. Adequacy of O&M:	
<p>CRA operates and maintains the facility and associated groundwater extraction wells in a manner sufficient to keep the system above 95% operation and achieve a level of treatment that meets or exceeds drinking water Maximum Contaminant Levels in treatment system effluent (per 2006-2009 annual effectiveness reports prepared by CRA). This high level of sustained operation is indicative of a strong commitment to adequately operate and maintain this equipment by both Freescale, Honeywell, and CRA. Logbooks are orderly onsite, well maintained, and up-to-date. Preventative maintenance activities are performed as required and major repairs are completed promptly. This review indicates the O&M is adequate to maintain effective operation of the system.</p>	
3. Early Indicators of Potential Remedy Failure:	
<p>No significant issues were uncovered during the site inspection. Some areas of opportunities for optimization are noted below.</p>	
4. Opportunities for Optimization of O&M and Monitoring Activities:	
<p>While the system is operating sufficiently to accomplish the remedial objectives as stated in the ROD it was noted during the site inspection that this is accomplished using only a little over half the available treatment capacity of the system. This leaves the treatment system with significant capacity to handle additional flows. A review of the available site data should be undertaken to determine the feasibility of additional extraction wells in areas of higher concentrations within the plume in the OU2 area. Additional extraction in these areas in the near future should reduce both the total overall cost and remedy duration of the final remedy once it is in-place.</p>	



No	Revision	Date	Initial
1	REVISED TO ADDRESS COP COMMENTS	JUNE 99	EM
2	REVISED FOR RESUBMISSION TO COP	OCTOBER 99	EM
3	ADDED NOTES AND ELEVATIONS, REVISED	MAY 2000	EM
FIRELINE DETAILS			
4	AS-RECORDED	DEC 07 01	B & V

- NOTES:**
- CONTRACTOR TO EXPOSE AND VERIFY INVERT ELEVATION OF ALL EXISTING UTILITIES THAT MAY INTERFERE WITH WORK UNDER THIS CONTRACT BEFORE INSTALLATION OF NEW SANITARY SEWER AND SITE WORKS. IF REQUIRED, ADJUST ELEVATIONS OF NEW SANITARY SEWER SYSTEM.
 - ALL ON-SITE WATER LINES, INCLUDING THOSE REQUIRED FOR FIRE PROTECTION SHALL BE PRIVATE PLUMBING LINES SUBJECT TO THE PHOENIX PLUMBING CODE.
 - ALL NEW OR RELOCATED UTILITIES WILL BE PLACED UNDERGROUND.
 - ALL NEW SANITARY SEWER LINES WITHIN THE SITE SHALL BE PRIVATE PLUMBING LINES SUBJECT TO THE PHOENIX PLUMBING CODE.
 - SEE DWG L-3 FOR IRRIGATION PIPING.
 - SEE DWG E-14 FOR 8-HOUR EMERGENCY POWER SUPPLY TO H3/H7 OCCUPANCY.
 - GENERAL FLOOR ELEVATION 1099.36'. FLOOR ELEVATION IN POLICE OFFICE IS 1100.02'.



PROJECT # P98002 DIS # 46926

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS		
Status	Date	Initial
FINAL DESIGN SUBMITTAL	FEB 99	SW
PRE-FINAL DESIGN SUBMITTAL	SEPT 17 98	SW

**52nd STREET SUPERFUND SITE
PHOENIX, ARIZONA**

OPERABLE UNIT 2 AREA

**TREATMENT SITE
YARD PIPING**

CRA ENGINEERING INC.

Source Reference:

Project Manager:	Reviewed By:	Date:
S. WHILLIER		JUNE 1998
Scale:	Project No.:	Report No.:
1"=20'	13932-61	004
		C-04

DISCLAIMER:
THE ACCURACY OF THE POSITION AND EXISTENCE OF POWER LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM DURING THE COURSE OF THE WORK.

**CITY OF PHOENIX, ARIZONA
BENCHMARK**

MONUMENT STAMPED: NO STAMP
LOCATION: 20TH STREET AND WASHINGTON STREET
ELEVATION: 1098.601
DESCRIPTION: ADOT ALUMINUM CAP, 1' NORTH OF RETURN AND 1.5' EAST OF SIDEWALK, AT SOUTH END OF SOUTHEAST RETURN.